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JOB ATTITUDES OF AIR FORCE SYSTEMS COMMAND PERSONNEL

MAJOR GREGORY G. WAEBER

86-2620

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Submitted to the faculty in partial fulfillment of requirements for graduation.

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ABOUT THE AUTHOR

Major Gregory G. Waeber received his Bachelor of Arts Degree in History from the University of Maryland and was commissioned in 1973. four years as a Minuteman Missile Launch Control Officer at Ellsworth AFB, he entered the Air Force Institute of Technology's Education-with-Industry program. This assignment was to the Boeing-Vertol Corporation in Philadelphia. Major Waeber participated in the Contracting option. 1979, he completed the industry tour and began six consecutive years assigned to the Air Force Systems Command (AFSC). The first three years were spent as a contract manager, contracting officer, and Operations Division Chief at Rome Air Development Center, Griffiss AFB, New York. In 1982, he was assigned to Aeronautical Systems Division, Wright-Patterson AFB, Ohio. While there he was a Contracting Branch Chief in the F-16 System Program Office for two years and served one year as the Deputy Director of Contracting's Resource Management/Analysis Division. Major Waeber was selected to attend the Air Command and Staff College (ACSC) in 1985. He has also completed ACSC by seminar and Squadron Officer School in residence. Major Waeber received a Master of Arcs Degree in Public Administration from the University of Northern Colorado in 1976.

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TABLE OF CONTENTS

About the Authori	11
List of Illustrations	v
Executive Summary v	11
CHAPTER ONE - INTRODUCTION	1
CHAPTER TWO - LITERATURE REVIEW	4
Review of Theories	5
Attitude Research in Environments Similar to AFSC	7
Attitude Research in Environments Similar to Arst	•
CHAPTER THREE - METHOD	10
	10
	11
	12
	13
	15
	15
•	17
Factors Where All AFSC Personnel Categories Were More Positive	
than the Data Base	22
CHAPTER FIVE - DISCUSSION	2 -
	25
	25
	28
	29
The Work Group Output	30
CHAPTER SIX - RECOMMENDATIONS	32
Officers	32
Enlisted Personnel	34
	35
REFERENCES	37
APPENDICES	
	41
	57
Appendix C - Attitudinal Comparison of AFSC Personnel	,,
·	4 ۵

__ LIST OF ILLUSTRATIONS __

TABLES

	ple Sizes of Comparison Groups 1
	nificantly Different Factors l
	mary for Factor 805 (Work Support) 2
	mary for Factor 813 (Task Autonomy) 2
TABLE 5 - Sum	mary for Factor 806 (Need for Enrichment) 2
TABLE 6 - Sum	mary for Factor 816 (Desired Repetitive/Easy Tasks) 2
	APPENDIX TABLES
APPENDIX B	
•	1
TABLE B-1 -	Number of Respondents by Personnel Category 5
TABLE B-2 -	Sex by Personnel Category 5
TABLE B-3 -	Age by Personnel Category 5
TABLE B-4 -	Time in Air Force 5
TABLE B-5 -	Months in Present Career Field 5
TABLE B-6 -	Months at Present Duty Station 6
TABLE B-7 -	Months in Present Position 6
TABLE B-8 -	Ethnic Group 6
TABLE B-9 -	Marital Status 6
TABLE B-10 -	Spouse Status (AFSC) 6
TABLE B-11 -	Spouse Status (Data Base) 6
TABLE B-12 -	Educational Level 6
TABLE B-13 -	Professional Military Education 6
TABLE b-14 -	Number People Directly Supervised 6
TABLE B-15 -	Number People for Whom Respondent Writes
	APR/OER/Appraisal 6
TABLE B-16 -	Supervisor Writes Respondent's APR/OER/Appraisal 6
TABLE B-17 -	Work Schedule 6
TABLE B-18 -	Supervisor Holds Group Meetings 6
TABLE B-19 -	Supervisor Holds Group Meetings to Solve Problems 6
TABLE B-20 -	Aeronautical Rating and Current Status 6
TABLE B-21 -	Career Intent 6

_ CONTINUED _

APPENDIX C

TABLE C-1 TABLE C-2 TABLE C-3	- - -	OAP Factor Scores Between AFSC and Other Officers The Work Itself	70 71
TABLE C-5 TABLE C-6 TABLE C-7	- - -	OAP Factor Scores Between AFSC and Other Enlisted The Work Itself	74 75
TABLE C-9 TABLE C-10 TABLE C-11	- - -	OAP Factor Scores Between AFSC and Other Civilians The Work Itself Job Enrichment Work Group Process Work Group Output	78 79



EXECUTIVE SUMMARY

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REPORT NUMBER 86-2620

AUTHOR(S) MAJOR GREGORY G. WAEBER, USAF

TITLE JOB ATTITUDES OF AIR FORCE SYSTEMS COMMAND PERSONNEL

- I. <u>Purpose</u>: To compare demographic characteristics and job attitudes of Air Force Systems Command (AFSC) officers, enlisted personnel, and civilian employees with those of corresponding personnel categories in the total Air Force. To analyze the results of the comparisons by concentrating on significant differences and, based on the analyses, to develop recommendations for AFSC commanders and functional managers.
- II. Problem: Employee job attitudes have been linked to productivity and career intentions in many organizational settings. The data base maintained by the Leadership and Management Development Center (LMDC), Maxwell AFB, Alabama, is the focal point for Air Force personnel job attitude research. The LMDC data gathering and research function will no longer be funded after FY 86. There is a need to preserve the job attitude results in a useable format so that information on the job attitudes of Air Force people remains available to commanders and others. The present paper helps meet that need.
- III. <u>Data</u>: Comparisons of responses of AFSC personnel to those of other Air Force members are made using data gathered with the Organizational Assessment Package (OAP). The OAP is a job attitude survey developed jointly by the Air Force Human Resources Laboratory and LMDC. Demographic

CONTINUED

comparisons are provided between responses of almost 9,000 AFSC personnel and approximately 100,000 other Air Force personnel. Attitudinal comparisons are made based on 93 items on the OAP survey. These 93 items are grouped into 27 job attitude factors. Factors showing significant differences between AFSC and the data base are identified and analyzed.

IV. <u>Conclusions</u>: Significant attitudinal differences exist between AFSC personnel and their data base counterparts. Differences are found in all personnel categories (officers, enlisted, and civilians). AFSC officers responded overall less positively than the other officers. AFSC enlisted personnel responded much more positively than their peers, and AFSC civilians responded slightly more positively than the data base civilians. There were four factors to which all three AFSC personnel categories responded more favorably than their counterparts.

The mean responses of the AFSC officers differ from the data base means on 19 of the 21 factors. The AFSC officers' responses were less positive on 15 of the 19 significantly different factors. They responded less positively to factors measuring the following: Job Performance Goals, Task Characteristics, Job Related Training, Skill Variety, Task Identity, Task Significance, Job Feedback, Job Motivation Index, Management Supervision, Communications Supervisory Climate, Organizational Advancement/Recognition, Communications Pride, Climate. Work Effectiveness, and General Organizational Climate. Their more positive responses were to factors measuring Task Autonomy, Work Repetition, Desired Repetitive Easy Tasks, and Work Support.

The responses of AFSC's enlisted personnel were overwhelmingly more positive than their data base counterparts. AFSC enlisted personnel responded more positively to factors measuring the following: Task Characteristics, Task Autonomy, Desired Repetitive Easy Tasks, Task Significance, Job Feedback, Need for Enrichment, Job Motivation Index, Work Support, Management and Supervision, Organizational Communications Climate, Pride, Work Group Effectiveness, Job Related Satisfaction, and General Organizational Climate. Only in the Advancement/Recogniation factor did AFSC enlisted personnel respond less positively than their data base counterparts.

The mean responses of AFSC's civilian personnel were significantly different from the data base civilians on 16 of the 21 factors. The AFSC civilians responded more positively on the following nine factors: Task Autonomy, Work Repetition, Desired Repetitive Easy Tasks, Need for Enrichment, Work Support, Management and Supervision, Supervisory Communica-



tions Climate, Advancement/Recognition, and Work Group Effectiveness. Their responses were less positive on the following seven factors: Job Performance Goals, Task Characteristics, Task Identity, Task Significance, Job Feedback, Pride, and Job Related Satisfaction.

V. Recommendations: AFSC commanders and supervisors should take advantage of their personnel's desires for challenge and growth. They should provide training and experience opportunities that lead to positions with growth potential and increased job enrichment. Supervisors should strive to improve the employee's feelings of task significance and pride. Supervisors should ensure that the employees are aware of their roles in the organization and of the importance of the organization's mission. Supervisors of enlisted personnel should encourage them by more job enrichment and increased dialogue.

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Chapter One

INTRODUCTION

The impact of job attitudes on employee productivity is an area frequently studied and analyzed by businesses and social researchers. The Air Force, too, is concerned with the job attitudes of its officers, enlisted personnel, and civilian employees. This concern led the Air Force to emphasize job satisfaction and member motivation with the aim of producing satisfied individuals performing more efficiently and effectively (Crooch, 1976). The benefits derived from job attitude improvements should have tangible work-related results and support United States national security interests via a stronger Air Force. The present paper contributes to the Air Force job attitude research program by examining attitudes within one Air Force major command, Air Force Systems Command (AFSC).

Several steps are taken in analyzing the job attitudes of AFSC personnel. Survey data provided through the United States Air Force (USAF) Organizational Assessment Package (OAP) are analyzed and the results are provided for AFSC commanders and resource managers. All data are from the OAP data base maintained by the USAF's Leadership and Management Development Center (LMDC) at Maxwell Air Force Base, Alabama. The results highlight command strengths and potential problem areas indicated by AFSC survey respondents. The responses of AFSC personnel are compared to responses of personnel in other Air Force commands to provide a perspective for the analysis. Responses from officers, enlisted personnel, and civilians are

examined separately. Survey results from approximately 9,000 AFSC personnel are compared to those from almost 100,000 personnel in other commands. The OAP and LMDC's roles in the data collection and analysis are described in detail in Chapter Three of this report.

Before discussing the detailed goals of the present research, some background discussion is in order. According to the Air Force Magazine (1985, p. 81), AFSC is the 7th largest of the 13 major commands. Its 56,254 total personnel (assigned strength as of 30 September 1984) is 51 percent military and 49 percent civilian. Although they comprise only 7.0% of the total USAF population, AFSC people administer 38% of the total USAF budget. The unique civilian/military manpower mix, large fiscal responsibilities, and the AFSC mission, "to advance aerospace technology, apply it to operational aerospace systems development and improvement, and acquire qualitatively superior, cost-effective, and logistically supportable aerospace systems," make AFSC an atypical command. Duty locations ranging from command headquarters in Washington, D.C., to command laboratories, and to the facilities of major U.S. defense contractors throughout the country also serve to set AFSC personnel apart. These command characteristics help shape the job attitudes of AFSC personnel.

The job attitudes of all working personnel, Air Force and others, are important to organizational climate and mission accomplishment. These attitudes include the employees' feelings about the job, co-workers, the supervisor, and more. Job attitudes also impact career intentions and dedication to mission accomplishment (Thompson, 1980; Brock, 1969). As the USAF's largest employer of scientists and engineers, AFSC must be sensitive to the professional attitudes of such technical people. The special needs

of these professionals have been studied many times (e.g., Dullighan, Riedel, & Thompson, 1973; Friedlander & Walton, 1964).

The present research does not concentrate on the specific category of technical people. It addresses the people of AFSC as a whole. The attitudes of AFSC technical people will be considered to the extent that they contribute to the overall percentage of total survey respondents.

Because the LMDC data gathering and storage system will no longer be funded after FY 86, it is especially important that results of the OAP be preserved and provided to AFSC leaders. To that end, officials at LMDC have sponsored the present study. The following four goals are pursued:

- to conduct a review of relevant background research and organizational behavior literature;
- to compare OAP-measured demographic characteristics and job attitudes of AFSC officers, enlisted personnel, and civilian employees with the attitudes of corresponding personnel in the other Air Force commands;
- 3. to analyze significant attitudinal differences between AFSC and other personnel; and
- 4. to recommend, to AFSC commanders and functional resource managers, ways to capitalize on attitudinal strengths and compensate for attitudinal weaknesses.

The report addresses each of these goals. First, the literature review and research background material are summarized in Chapter Two. Then Chapter Three provides details on the OAP survey instrument, data collection, and methods of data analysis. The following chapter (Chapter Four), presents the demographic and attitudinal results. Chapter Five provides the analysis of the results. Finally, Chapter Six lists conclusions and recommendations.

Chapter Two

LITERATURE REVIEW

Job attitude data on many USAF members have been collected by LMDC (Mahr, 1982; Short, 1985; Short & Hamilton, 1981). Past research has demonstrated the usefulness of the OAP for attitude analysis (Reed, 1979) and for the comparison of major air commands (Dirnberger, 1980). But what is to be gained through the OAP studies of job satisfaction attitudes? Some argue that the study of job satisfaction is important for at least several reasons:

- 1. To understand the sources of satisfaction and dissatisfaction is important in and of itself for humanitarian reasons.
- 2. Managers and policy makers believe it is important.
- It enables interested theoreticians to study the dynamics of human motivation.
- 4. The study of satisfaction with the job, and the determination of such attitudes, would be expected to contribute to the broader psychology of attitudes and human motivations. (Tuttle & Hazel, 1974, p. 21)

These are good and sufficient general reasons for studying job attitudes. However, within the Air Force there are even more practical reasons. Improvements in job related attitudes aimed at retention and productivity increases are obvious ones. Job actitudes are linked to the retention decisions of Air Force personnel in many studies (Crooch, 1976; Dirnberger, 1980; Edwards, 1978; Patterson, 1977). Studies also show that attitudes and productivity are affected by supervisory communication practices (Wilkerson & Short, 1983; Wilkerson, Short, Vermilya, & Christ, 1980). Productivity increases have also been linked to group goal-setting

activities (Weiss, 1980).

The present research is the first time that the entire OAP data base has been used to compare job attitudes of AFSC personnel to the rest of the USAF. Because of the lack of previous comparative studies, the present review first concentrates on general organizational motivation and job satisfaction theories. The second portion more closely relates to a review of job attitude research in job situations similar to the AFSC environment.

Review of Theories

The following theories were reported to have the greatest potential for USAF job satisfaction research (Tuttle & Hazel, 1974). These theories were chosen from an extensive list because they appear more relevant to the military setting than the others examined. The first of five theories to be examined is Herzberg's Two-Factor Theory.

Herzberg's Two-Factor Theory

Herzberg's major ideas were that workers were motivated (satisfied) by the content of work (intrinsically) and that inadequate extrinsic factors (i.e. working conditions, relationships) acted primarily as dissatisfiers. Herzberg claimed that his theory had universal validity. Weaknesses in method and theory brought criticism of Herzberg's model (Vroom, 1964; Whitsett & Winslow, 1967). Friedlander (1965) criticized Herzberg's absolute motivation model. Some studies of intrinsic and extrinsic motivation concluded that white-collar workers are intrinsically motivated and blue-collar workers more extrinsically oriented (Friedlander, 1965; Seeman, 1967; Turner & Lawrence, 1965). In 1975, an empirical test reported that neither type reward is the primary determinant of job satisfaction. A flexible approach that situationally analyzes the needs of the workers, the

organization, and the work environment was determined best (Reif, 1975).

Equity Theory

The basic assumption of the equity theory is that individuals have an expectation of a fair reward level which they should receive from social exchange (work). If rewards for exchange are not considered equitable then unpleasant feelings (attitudes) are generated (Vroom, 1964; Adams, 1965).

Instrumentality-Expectancy Theories

These theories are based on the belief that a job within an organization has a range of acceptable behavior. The incumbent in the job has desires to obtain some work-related outcomes, to avoid others, and is indifferent to still more. The theory attempts to explain the process affecting the individual's choices between alternatives. Job motivation concentrates on the individual's anticipated satisfaction with various outcomes (Graen, 1969; Porter & Lawler, 1968; Vroom, 1964).

Cornell Studies in Satisfaction

These studies are very data-oriented and provide a job satisfaction theory building tool. They are best summed by the following, "It is, therefore, the interrelationships of objective factors of the job, of individual capabilities and experiences, of alternatives available in the company and the community, and of the values of the individual that can be expected to predict satisfaction and performance" (Smith, Kendall, & Hulin, 1969, p. 165).

Need Fulfillment Theory

This theory is based on Maslow's need hierarchy (1943), Alderfer's Existence, Relatedness, and Growth Theory (1969), and the Theory of Work Adjustment (Dawis, England, & Lofquist, 1964). The need fulfillment approach

to job satisfaction concentrates on the relationship between the needs of the individual and the extent to which the job satisfies those needs. An individual is satisfied to the extent that the organization meets his or her needs.

For the interested reader, Tuttle and Hazel (1974) offer a detailed review of military research on job satisfaction/motivations theory. More recent studies concerning changing attitudes (Wood, 1980) and job satisfaction among youths in military and civilian work settings (Blair & Phillips, 1983) validate the military's continuing interest in job attitudes. Also, the existence of LMDC, the Army's Organizational Effectiveness Program, and efforts by the Office of Naval Research show the military services' desire to tap this potential resource.

Attitude Research in Environments Similar to AFSC

On the less theoretical side, a review of literature specifically concentrating on AFSC or AFSC-type subjects was conducted. The impact of job attitudes on satisfaction and productivity improvement was demonstrated in several AFSC System Program Offices (SPO). A study of over 1,000 personnel concluded that top echelon managers are more job-satisfied than are their subordinates. The conclusions of the study directed the supervisor's attention to the worker's task identity (being able to carry out a task from start to finish) and task significance (work importance) areas. These areas were identified as needing more attention (Rigsbee & Roof, 1975).

As the Air Force's largest employer of scientists and engineers, AFSC must be concerned with the satisfaction and productivity of its technical personnel. A study of over 600 technical employees at Westinghouse's

Nuclear Technology Division investigated the importance of matching white-collar skills to the work required. The company systematically matched the job with the person best equipped to do it. Impressive results in white-collar productivity and employee satisfaction were reported (Hoop & Wolzansky, 1983). Another study related to Air Force technical personnel (officers only) concluded that their career decisions were significantly affected by the technical competence of their supervisors (Thompson, 1980). Thompson concluded that less than competent technical supervision discouraged a technical officer from staying in the Air Force and thus increased his or her mobility desire.

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The mobility patterns of the scientists and engineers in America should also be of interest to AFSC leaders and those charged with the recruitment and retention of personnel with these skills. "A study of the mobility patterns of technical employees concluded that mobility between sectors (private industry, government, academia, and nonprofit) is largely a process for the 'nonelite,' contradicting a popular image normally associated with such movement" (Doreian & Hummon, 1980, p. 322). This same study also concluded that mobile technical employees are less committed to current organizational arrangements.

A relationship between organizational commitment and retention decisions was studied by Peters, Bhagat, & O'Conner (1981). They concluded that job retention decisions were more strongly affected by organizational commitment than by job satisfaction. The importance of improving employee commitment can be inferred from this study. Another study has concluded that changing demographics (American workers are younger, with more women and minorities) are resulting in less organizational commitment (Goodstein,

1983). "In the past, persons were tied to the organization by their commitments to their families and by their loyalties to the organization, but many persons now are less family oriented, and organizational loyalty is seen as being less important than personal loyalty and autonomy" (Goodstein, 1983, p. 206).

The importance of supervisory feedback and goal-setting on employee motivation and performance has been recognized many times (Greller & Herold, 1975; Ilgen, Fisher, & Taylor, 1979; Pavett, 1983; Weiss, 1980). Communications is important in all organizations and is the most direct link between subordinates and superiors.

In the Research and Development (R&D) environment a very specialized communication role exists. Three government R&D laboratories were studied to determine the motivation of individuals known informally as "gatekeepers" or "key communicators" (Chakrabarti & O'Keefe, 1977). The position is held by members who informally become the preferred channel for information in the R&D environment. These individuals were found to be motivated by a variety of personal reasons including, personal satisfaction, intellectual pleasure, interest in helping others, and sense of status. No formal organizational reward, such as a pay increase, accompanied the informal status. The authors concluded that these individuals exist in all R&D laboratories. Their existence in AFSC labs is, therefore, assumed.

This literature review and summary of research background material pointed out a wide range of variables that influence job satisfaction and employee motivation. It concentrated on job satisfaction theory and specific research in AFSC-type environments. The next chapter provides details on the OAP survey instrument, data collection, and methods of data analysis.

Chapter Three

METHOD

Instrumentation

The OAP survey was jointly developed by the Air Force Human Resources Laboratory (AFHRL) and LMDC. It is a questionnaire consisting of a computer-scored response sheet and a 109-item booklet. The questionnaire contains 16 demographic items and 93 attitudinal items. Each of the items can be found in Appendix A (OAP Survey: Factors and Variables). Responses to the attitudinal items are made on a scale of 1 to 7. A response of "1" usually indicates a strong dissatisfaction or disagreement with the specific statement or item. Correspondingly, a response of "7" usually indicates a strong positive feeling.

The survey's 109 items are divided into seven modules. The first module is the background information section and contains 16 demographic items about the individual respondent. The next module, which is the first attitudinal one, concerns the job inventory. Respondents are presented 34 items related to their job's complexity, job goals, and similar issues. The third module (job desires) contains seven items and covers desired job characteristics. Supervision is the focus of the fourth module. These 19 items measure the leadership and managerial traits of the respondent's supervisor. The fifth module (work group effectiveness) deals with the quality and quantity of the work produced by the respondent's work group.

This module contains five items. Next is a 19-item module (organizational climate) which concerns the respondent's relationship with the squadron or staff agency. Finally, the job satisfaction module deals with the work environment and consists of nine items. The OAP was validated as a data gathering instrument in several studies (Hightower & Short, 1982; Short & Hamilton, 1981). Individual factor analysis results of the OAP development are discussed in Hendrix and Halverson (1979a; 1979b).

The OAP survey results, for each unit visited by LMDC's management consultants, become part of a cumulative data base used to study Air Force systemic issues. This active data base contains over 100,000 initial survey administration records. These data were collected from 1 October 1981 through 16 September 1985. Records of survey data collected prior to 1 October 1981 are maintained in a separate inactive file.

Data Collection

All data in the present report were gathered as a part of LMDC's management consultation program. The OAP questionnaire was administered only where unit commanders had formally requested a consultation project. All unit personnel were asked to complete OAP surveys during several group survey sessions. Participants were promised individual anonymity. No attempt was made to survey unit members unavailable for the normally scheduled group sessions. The data gathering process normally required about one week. The process included interviews, administering the survey, and other organizational data gathering activities. From an Air Force-wide perspective, the sample is an "opportunity sample" or a "sample of convenience." However, since many such "mini-censuses" were collected, the cumulative data base is thought to represent attitudes of a significant

portion of the Air Force.

The data gathering phase concluded with the LMDC team's return to Maxwell AFB. At Maxwell, the data were analyzed and the team prepared for their return or tailored visit to the surveyed unit. This tailored visit focused on the unit's OAP responses. During the visit the team attempted to validate survey results and then reported on the perceived strengths and weaknesses at all organizational levels. Areas such as supervision, communications, career intentions, and a range of leadership and management issues were stressed. Team members also conducted workshops and seminars and upon request would work with individual supervisors.

Subjects

The OAP responses of AFSC personnel were compared to responses of all other personnel in the active LMDC OAP data base. The AFSC group consists of officer, enlisted, and Department of the Air Force civil service personnel (civilians). Sample sizes for the comparison groups are indicated in Table 1. The total active data base contains responses from surveys administered at 57 different bases or operating locations. One hundred and two different organizations were surveyed. Personnel from AFSC responded on 26 different occasions and from 9 different locations.

Table 1
Sample Sizes of Comparison Groups

	Officers	Enlisted	Civilians	
AFSC Data Base	2,012 10,698	2,034 68,513	4,850 20,077	
Data Dase	10,090	00,515	20,077	

Procedures

Two separate comparisons were used to analyze the OAP data. The first comparison, "Analysis of Demographic Information," is provided to characterize the groups. The second comparison, "Attitudinal Comparison of AFSC Personnel to the LMDC Data Base," compares mean attitude scores of the groups by personnel category.

The letter, $\underline{\mathbf{n}}$, shown throughout the tables of this report, is the number of valid responses in the data base for the specific area being examined. Interested readers are directed to the SPSSX User's Guide (1983) for an explanation of the statistical analyses used.

Comparison 1, Analysis of Demographic Information

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For this analysis, the LMDC data base was divided into two groups. Group 1 consisted of AFSC responses and Group 2 of all remaining responses in the active LMDC data base. The two groups were further subdivided into officer, enlisted, and civilian personnel categories.

Comparison 2, Attitudinal Comparison of AFSC Personnel to the Data Base

The attitudinal responses of each of the AFSC personnel categories were compared to the responses of each of the corresponding categories in the data base. Two-tailed <u>t</u>-tests, using the alpha = .05 significance level (i.e., 95% confidence level), were performed to distinguish attitudinal differences between groups within each personnel category. An <u>F</u>-test was used to test the assumption of equal variances. When necessary, <u>t</u>-tests for unequal variance groups were used. These procedures were used to determine areas where AFSC and data base responses varied significantly. Data were compared in four separate categories:

l. Work Itself. This category is concerned with the task

properties and environmental conditions of the job. It measures perceptions of task characteristics.

- 2. <u>Job Enrichment</u>. This category measures the degree to which the job itself is interesting, meaningful, challenging, and responsible.
- 3. <u>Work Group Process</u>. This category assesses the effectiveness of supervisors and the process of accomplishing the work.
- 4. Work Group Output. This category measures task performance, group development, and effects on group members. It also assesses the quality and quantity of task performance, the member's pride, and job satisfaction.

This concludes Chapter Three and the discussion of the OAP survey, data collection, comparison procedures, and a brief description of the subjects. The next chapter (Chapter Four) provides the results of the demographic and attitudinal comparisons between the AFSC and other Air Force groups.

Chapter Four

RESULTS

Summary results of the data provided by Air Force members to the LMDC survey teams are reported in this chapter. Results of the demographic and attitudinal comparisons between AFSC personnel and those in other commands are included here and/or in Appendices B and C.

Analysis of Demographic Information

A comparison of demographic information between AFSC and data base responses reveals several trends. Marked differences are evident in stability, formal education, and supervisory responsibilities. Complete demographic summary information is included in Appendix B, Tables B-1 through B-21.

All three AFSC personnel categories indicated greater stability, in daily work shifts and time on station, than their data base counterparts. Greater work shift stability in AFSC is evidenced in the fact that 85% of AFSC personnel worked regular day shifts, while only 65% of the other Air Force personnel worked this shift (Table B-17). All AFSC personnel show greater stability of location (indicated by greater than 36 months on station) than other Air Force personnel. In this comparison, 23% of AFSC officers have more than 36 months on station compared to only 16% of the data base officers. The same trend existed in enlisted personnel (30% versus 17%) and civilians (68% versus 64%). In a comparison of months in

present position (Table B-7), 56% of the AFSC officers indicated at least 12 months in their current position compared to 48% for other officers. The responses of AFSC enlisted personnel and civilian employees are very similar to the data base responses. Another trend is evident in the area of formal education.

The formal education patterns of AFSC personnel (all categories) show marked differences from the data base responses (Table B-12). In a comparison of highest formal education level attained, AFSC trends are higher across-the-board. Fourteen percent of AFSC officers (survey respondents) possess doctoral degrees compared to 7% of the data base group. Twenty-three percent of AFSC's enlisted personnel report greater than two years of college versus 16% of the data base. Twenty-eight percent of AFSC's civilian employees report bachelor's degrees while only 12% of the other civilians surveyed by LMDC have their degrees. No similar trend exists in the Professional Military Education responses (Table B-13).

Supervisory opportunity and responsibility show a different trend. The data base personnel in all categories report greater supervisory opportunities. This is indicated by the lower percentages of data base personnel reporting that they are not supervisors (59% versus 71% for AFSC) and the greater percentages of data base personnel reporting larger groups supervised (Table B-14). A comparison of the percentage of supervisors of at least four people reveals that 38% of the data base officers versus 29% of AFSC's fit this category. Other checks reveal 19% of data base enlisted personnel supervise at least four versus only 14% for AFSC enlisted personnel. The corresponding figure for data base civilians is 28% versus 14% for their AFSC counterparts. This same trend is shown in Table B-15

which depicts percentages of personnel who write performance appraisals.

In Chapter One, AFSC's unique military/civilian mix (51% military/49% civilian) was mentioned. Table B-1 of Appendix B shows that the OAP survey sample is slightly high in the AFSC civilian representation (54%). The trend of AFSC's greater officer-to-enlisted ratio (1:1 for AFSC versus 1:7 for data base) and the high civilian percentage in AFSC compared to the data base (25%) is also evident.

Attitudinal Comparison of AFSC Personnel to the Data Base

Significant attitudinal differences between AFSC and data base personnel are found in each of the four major organizational behavior areas. The mean responses of the AFSC officers differ significantly from the data base means on 19 of the 21 factors. The responses of the AFSC enlisted personnel and civilian employees are significantly different from their corresponding categories on 15 and 16 factors, respectively. These factors were predominately less positive for the AFSC officers (15 to 4), overwhelmingly more positive for the AFSC enlisted personnel (14 to 1), and slightly more positive for the AFSC civilians (9 to 7). Tables comparing all of the OAP factor scores between AFSC personnel and the data base personnel are located in Appendix C. The following table (Table 2) summarizes factors with significant differences between AFSC and data base personnel.

AFSC Officers versus Data Base Officers

In the area of the "Work Itself," the AFSC officers are significantly different from the data base officers on all six of the factors (Table C-1). Their mean responses are more positive on three of the factors and less

Table 2 Significantly Different Factors

AREA FACTOR	OFFICER	ENLISTED	CIVILIAN
Work Itself			
(810) Job Performance Goals	(-)		(-)
(812) Task Characteristics	(-)	(+)	(- <u>)</u>
(813) Task Autonomy	(+)	(+)	(+)
(814) Work Repetition	(+)	• •	(+)
(816) Desired Repetitive Easy Tasks	s (+)	(+)	(+)
(823) Job Related Training	(-)		
Job Enrichment			
(800) Skill Variety	(-)		
(801) Task Identity	(-)		(-)
(802) Task Significance	(-)	(+)	(-)
(804) Job Feedback	(-)	(+)	(-)
(806) Need For Enrichment		(+)	(+)
(807) Job Motivation Index	(-)	(+)	
Work Group Process			
(805) Work Support	(+)	(+)	(+)
(818) Management and Supervision	(-)	(+)	(+)
(819) Supervisory Comm. Climate	(-)		(+)
(820) Organizational Comm. Climate	(-)	(+)	
Work Group Output			
(811) Pride	(-)	(+)	(-)
(817) Advancement/Recognition	(-)	(-)	(+)
(821) Work Group Effectiveness	(-)	(+)	(+)
(822) Job Related Satisfaction		(+)	(-)
(824) General Org. Climate	(-)	(+)	

^{(-) -} indicates AFSC response less positive than data base (+) - indicates AFSC response more positive than data base

positive on the other three. The more positive responses deal with Task Autonomy (Factor 813) and the favorable match between their lower desire for repetitive tasks (Factor 816) and their perception that their jobs are, in fact, less repetitive than those of the data base officers (Factor 814). Table C-1 reveals three factor score comparisons where AFSC officers' scores are less positive than the scores of the data base officers: Task Characteristics (Factor 812), Job Performance Goals (Factor 810), and Job Related Training (Factor 823).

In the "Job Enrichment" area, AFSC officers' ratings were lower than the data base on all five of the significantly different factor score comparisons (Table C-2). These factors include Skill Variety (Factor 800), Task Identity (Factor 801), Task Significance (Factor 802), and Job Feedback (Factor 804). The largest mean difference between the AFSC and data base responses is for Task Significance, which measures the respondent's feelings about the importance of the job.

The negative trend continues in the area of "Work Group Process" where the mean responses of AFSC officers are significantly lower than the data base means on three of the four factors (Table C-3). The only more favorable AFSC rating is in Work Support (Factor 805). The three less positive ratings deal with two supervision factors (Factor 818 and Factor 819) and the perception of the organization's communication environment (Factor 820).

The negative trend is also evident in the "Work Group Output" area. Significant differences occur in four of the five factors (Table C-4). The AFSC responses are less positive than the data base in each of the four comparisons. These less positive attitudes appear in factors covering Pride

(Factor 811), General Organizational Climate (Factor 824), Work Group Effectiveness (Factor 821), and awareness of advancement and recognition (Factor 817). The predominantly less positive attitudes of the AFSC officers are in marked contrast to those of the AFSC enlisted personnel.

AFSC Enlisted Personnel versus Data Base Enlisted Personnel

The more positive responses of AFSC enlisted personnel dominate all four of the survey areas. Their responses in the "Work Itself" area are significantly higher on three of the six factors (Table C-5). AFSC enlisted personnel are more satisfied with their Task Characteristics (Factor 812) and Task Autonomy (Factor 813) than are the data base enlisted personnel. AFSC enlisted personnel's responses indicate that they are less desirous of repetitive tasks than are the data base enlisted personnel (Factor 816).

In the "Job Enrichment" area AFSC enlisted personnel were more positive on all four of the significantly different factor score comparisons (Table C-6). Their responses indicate that they consider their jobs more important (Factor 802), feel they can ascertain their performance results better (Factor 804), and have a stronger desire for a challenging job than the data base group (Factor 806).

The positive trend continues in the comparison of "Work Group Process" responses. AFSC enlisted personnel respond more positively in all three of the significantly different factor score comparisons (Table C-7). Their responses indicate fewer hindrances to job performance than for the data base group (Factor 805). They also rate Management and Supervision (Factor 818) and the Organizational Communications Climate (Factor 820) more positively than the data base group.

The area of "Work Group Output" contains five factors and for each of them the two groups are significantly different (Table C-8). The only case of a less positive response by AFSC enlisted personnel is found here. They feel less prepared than the data base enlisted personnel for advancement and recognition (Factor 817). This factor also measures their feelings of being prepared for promotion. Their ratings of Pride (Factor 811), Job Related Satisfaction (Factor 822), General Organizational Climate (Factor 824), and Work Group Effectiveness (Factor 821) are all significantly higher than data base ratings of the same factors. The overwhelmingly positive responses of AFSC enlisted personnel do not carry-over to the comparison of the command's civilian employees with the data base responses. In general, the OAP responses of the AFSC civilians are only slightly more positive than their comparative data base civilian group.

AFSC Civilians versus Data Base Civilians

In the "Work Itself" area, AFSC civilian employees' ratings are significantly different from the data base civilians' on five of the six factors (Table C-9). For two of these factors, AFSC responses are less positive than the data base. They are Job Performance Goals (Factor 810) and Task Characteristics (Factor 812). AFSC civilians had more positive responses on Task Autonomy (Factor 813) and two factors involving work repetition (Factors 814 and 816).

AFSC civilians report a much less positive attitude in the "Job Enrichment" area. Significant differences exist in the mean responses for four of the five factors (Table C-10). The only more positive AFSC response is for the factor involving the respondent's desire for a meaningful job with opportunities for growth, independence, and variety (Factor 806). Less

positive AFSC responses occur for factors involving Task Identity (Factor 801), Task Significance (Factor 802), and Job Feedback (Factor 804).

In contrast, AFSC civilians are more positive than the data base civilians in the "Work Group Process" area. Significantly more positive differences occur on three of the four factors (Table C-11). These include both supervision factors (Factors 818 and 819) and Work Support (Factor 805).

The four significantly different responses in the "Work Group Output" area (Table C-12) are split equally. The two more positive factors for AFSC civilians are Work Group Effectiveness (Factor 821) and feeling of awareness of advancement and preparedness for promotion (Factor 817). The less positive AFSC responses are in Pride (Factor 811) and Job Related Satisfaction (Factor 822).

Factors Where All AFSC Personnel Categories Were More Positive than the Data Base

An overall review of the OAP results shows several patterns. First, the three AFSC personnel categories never unanimously responded less favorably than their corresponding data base groups. They did, however, all respond more favorably on 4 of the 21 factors. Favorable unanimity was reported in factors related to Work Support (Factor 805), Task Autonomy (Factor 813), Need for Enrichment (Factor 806), and the lack of desire for repetitive or easy tasks (Factor 816). Detailed information on each of the factors, as well as general information and definitions are contained in Appendix A. Tables 3 through 6 show summaries of the unanimously positive AFSC responses.

Table 3
Summary for Factor 805 (Work Support)

Personnel Category	Mean Response	Standard Deviation	Significantly Different
AFSC Officers	4.65	1.03	
Other Officers	4.54	1.10	YES
AFSC Enlisted	4.67	1.11	y no
Other Enlisted	4.53	1.12	YES
AFSC Civilians	4.72	1.05	VEC
Other Civilians	4.66	1.12	YES

Table 4
Summary for Factor 813 (Task Autonomy)

Personnel	Mean	Standard	Significantly
Category	Response	Deviation	Different
AFSC Officers	4.64	1.29	VP0
Other Officers	4.54	1.36	YES
AFSC Enlisted	4.04	1.41	VPO
Other Enlisted	3.82	1.42	YES
AFSC Civilians	4.68	1.31	N.D.O.
Other Civilians	4.56	1.36	YES

Table 5
Summary for Factor 806 (Need for Enrichment)

Personnel	Mean	Standard	Significantly
Category	Response	Deviation	Different
AFSC Officers	6.12	0.84	NO.
Other Officers	6.08	0.87	NO
AFSC Enlisted	5.70	1.17	wna.
Other Enlisted	5.47	1.24	YES
AFSC Civilians	5.90	1.05	*****
Other Civilians	5.65	1.21	YES

Table 6
Summary for Factor 816 (Desired Repetitive/Easy Tasks)

Personnel	Mean	Standard Deviation	Significantly Different
Category	Response	Deviation	Different
AFSC Officers	2.39	1.05	VEC
Other Officers	2.49	1.05	YES
AFSC Enlisted	3.10	1.38	WEG
Other Enlisted	3.22	1.42	YES
AFSC Civilians	2.72	1.24	VDC
Other Civilians	3.18	1.42	YES

The discussion to follow in Chapter Five examines these unanimously positive responses and also provides an analysis of other results contained in Chapter Four.

Chapter Five

DISCUSSION

This chapter concentrates on the factors where comparisons between AFSC and data base responses resulted in significant differences. The four areas of organizational function (Work Itself, Job Enrichment, Work Group Process, and Work Group Output) serve as the framework to discuss these responses. Particular emphasis is spent discussing trends and implications of the AFSC responses. The first area discussed is the "Work Itself."

The Work Itself

Two of AFSC's unanimously more positive factors (i.e., where AFSC officers, enlisted, and civilian personnel all rate the factor higher than their comparison group) are found in this area. The AFSC responses to Task Autonomy (Factor 813) and lack of desire for repetitive tasks (Factor 816) indicated a more positive feeling than their data base contemporaries. The positive responses to Factor 813 mean that the AFSC personnel feel greater freedom to decide, to schedule, and to do the job as they see fit. One possible explanation for their responses might be the relative lack of checklist or technical order tasks in the AFSC environment compared to the rest of the Air Force. Checklist type activities would tend to negatively distort Task Autonomy responses. The perceived autonomy of AFSC personnel may actually be helpful in dealing with the dynamic problems and challenges of weapon system test and development. A potential problem could result if

too much autonomy resulted in lack of direction or planning. Task autonomy was considered by many researchers to be an element of intrinsic job motivation. The "autonomy" feelings of all categories of AFSC personnel show a potential for intrinsic motivation that is also seen in their unanimously lower desire for repetitive tasks (Factor 816).

A potential demotivator for intrinsic motivation is a repetitive or easy job. All AFSC personnel categories were less desirous of repetitive or easy tasks (Factor 816) than were their data base counterparts. Their responses also indicated that AFSC officers and civilians actually performed less repetitive tasks than the data base. Personal preferences, therefore, compared favorably with the actual demands of the job, and AFSC job satisfaction and motivation are probably strengthened by this relationship.

A less favorable trend in this area is the lower ratings for Job Performance Goals (Factor 810) and Task Characteristics (Factor 812) by the AFSC officer and civilian respondents. Their responses to the goals factor may reflect the fact that many AFSC officers and civilians are specialists, whose jobs do not involve teams or groups with common goals. Supervisors may not be able to establish clear goals for each of their people. The inherent difficulties of program management, and research with its technical unknowns, also make some AFSC goals somewhat difficult to establish. Numerous studies report the correlation between organizational goal-setting and a positive impact on employee motivation, performance, and attitudes. This area may be a demotivator for some members of AFSC tasked with very challenging and changing job responsibilities. However, it may be that this job environment actually requires broad goals and flexibility. It is, therefore, possible that a lower than data base mean response is not

necessarily a negative signal.

The less positive responses by AFSC officers and civilians to Task Characteristics (Factor 812) more clearly reflects a potential for job demotivation. The factor measures several different aspects of job attitudes. Those personnel categories of AFSC most heavily tasked with carrying out the technical aspects of mission accomplishment responded less positively than their data base peers. This response could once again reflect the specialist nature of these AFSC categories and their desire for more and wider responsibility.

The AFSC officers stood alone in the command in their lower than data base response for Job Related Training (Factor 823). Other commands (especially operational units) have very specific training procedures and dedicated training units. AFSC organizations, on the other hand, tend to be one deep at many positions and do not have similar tasks being performed by many people. The training ratings by the AFSC officers may be affected by the nature of formal training. The AFSC officers are usually required to go TDY to obtain formal training. Duty requirements and other tasks may interfer: with their school attendance. The data base response (more positive) is probably influenced by the on-base facilities and dedicated training personnel for Air Force operational officers. Another possible factor in the AFSC response could be the frustration on the part of junior officers in dealing with much more senior representatives of industry. It is possible that lack of training may be a scapegoat for lack of experience. The negative trend of the officers and civilians of AFSC continues in the "Job Enrichment" area.

Job Enrichment

The Task Significance factor (Factor 802) merits discussion in this area. The AFSC officers' and civilians' mean responses were 0.38 and 0.37 scale points (respectively) below the data base means for this factor. The factor is a measure of the respondents' feelings about the importance of the Task significance is considered very important to the motivating potential of any job (Reif, 1975). It is hard for an employee to get internally motivated to perform a job that is perceived to be low in significance. The cause of this feeling could be under-motivating jobs, a failure on the part of the supervisor or others to properly explain the role of the employee in the organization, a bias on the part of the employee, or other reasons. The supervisor holds the key for resolving this feeling, either by job enrichment or dialogue (motivation). The mission of AFSC may also contribute to the lower ratings. Long range pay-offs from research and lengthy systems development lead-times may make daily activities seem unimportant to some officers and civilians. The civilian response is based on a greater cross section of grade and responsibility and may therefore be more indicative than the officer response.

The ability to motivate employees is definitely related to their perception of job importance. The trend toward less positive responses to the "Job Enrichment" factors by both the officers and civilians is important. Job attitudes are crucial to productivity and motivation. These personnel are very important to the success of Air Force weapon systems development and effective use of scarce resources. The overall mean scores do not necessarily reflect a lack of productivity or motivation, but may indicate that other Air Force officers and civilians feel more challenged,

responsible, and interested in their jobs.

The more positive trends in this area (Job Enrichment) by the AFSC enlisted personnel indicate their desire for more challenge, variety, and other intrinsically motivating job characteristics. However, the less positive responses by AFSC's officers and civilians merit further investigation and action on the part of AFSC leaders.

The Work Group Process

In this area, the Work Support factor (Factor 805) received higher mean scores in all AFSC personnel categories. This factor indicated that tools and workspace were adequate and that additional duties did not hinder performance of the primary job. Herzberg's Two-Factor Theory calls this workplace dimension a "satisfier." He stressed that satisfaction of such needs is not a motivator for harder work. This factor was the only case where AFSC officers had more positive responses than other data base officers.

Less positive AFSC responses in this area centered on factors related to supervision and supervisory communication. Thompson (1980) concluded that a positive correlation exists between these two factors and the career intent of scientific officers. The AFSC officers show a similar trend to that observed by Thompson. Their career intentions are less positive than those of the data base officers.

Factors related to supervision and communications were scored more positively by AFSC's enlisted personnel and civilian employees. Earlier discussion pointed out the reduced supervisory opportunities in AFSC compared to the data base. Supervisors at typical AFSC organizations may be organizationally farther removed from their subordinates than supervisors at

typical data base organizations. The more positive responses from these two personnel categories may indicate that the relative distance between supervisor and employee does not impede the supervisor's effectiveness. Conversely, the data base response could mean that closer supervision may be considered micromanagement. The last area to be discussed is the "Work Group Output."

The Work Group Output

The less positive responses by AFSC officers and civilians to Pride (Factor 811) have adverse implications. Both groups indicated their more positive desires for autonomy, growth, and use of skills (Factor 806). Herzberg's motivational theory indicates that employees who desire higher order need satisfaction are more motivated and satisfied by jobs higher in these characteristics. AFSC officers' and civilians' responses to the Pride factor indicate that their jobs are not fulfilling their needs. Reduced pride may make an employee difficult to motivate and productivity probably suffers. The career intent of AFSC officers (Table B-21) shows a greater percentage leaning toward separation than in the data base group.

The overall feelings of the three groups are summarized fairly well by the General Organizational Climate factor (Factor 824). This is a broad-ranging factor. The AFSC officers' mean response was significantly below the data base mean. The AFSC enlisted personnels' mean response was significantly higher than the data base mean, and the AFSC civilians' response was not significantly different from their comparison group's.

This concludes the discussion of the comparison of LMDC's OAP survey results between AFSC and the rest of the Air Force. Each of the three personnel categories was examined. Trends and some significantly different

responses were analyzed and discussed. In the next chapter, some recommendations for AFSC commanders and functional managers are made. Areas of attitudinal strengths and weaknesses are stressed.

Chapter Six

RECOMMENDATIONS

Analyses of the LMDC OAP data revealed some significant attitudinal differences between AFSC personnel and their data base counterparts. this chapter, recommendations based on these analyses are made to AFSC functional managers. commanders and For ease of review, these recommendations are divided Ն, personnel category into and strengths/recommendations and weaknesses/recommendations.

Officers

Based on their OAP responses, AFSC officers desire challenge, opportunity for personal growth, and autonomy. They appear to collectively need some job enrichment. Their less positive feelings on Task Significance and Pride are of concern, as are their less positive feelings toward virtually all facets of their supervision.

Strengths/Recommendations

- 1. AFSC officers desire challenge and growth.
 - a. Continue trend of longer tours as it provides chance to build technical competence and lessen inexperience.
 - b. Place officers in positions with growth potential, but avoid positions where lack of training and/or experience serves only to frustrate.
 - c. Encourage officers to follow a weapon system program as it technically matures. Officers could begin in an R&D assignment and then move to a product division (SPO) and/or an Air Force Plant Representatives Office (AFPRO).

Weaknesses/Recommendations

- 1. AFSC officers do not feel that their jobs are as significant, nor do they have as much pride in their jobs, as data base officers.
 - a. Examine job characteristics. Does the job or the officer need rebuilding?
 - b. Ensure that all officers (security clearance permitting) are familiar with the "threat" and fully understand their place in the organization. Also ensure that the organization's role and mission are proudly presented.
 - c. Continue Lieutenant's Professional Development Courses and Project Warrior efforts. Consider having pioneers in technical or hardware delivery innovations address AFSC officers working in those specialties.
 - d. Encourage military Commander's Calls for officers to stress military tradition in heavily civilian AFSC organizations.
 - e. Encourage membership in professional organizations (i.e. Engineering Associations, or Contract Management Associations).
- 2. AFSC officers rated their supervisors lower than did the data base officers.
 - a. Carefully choose AFSC supervisors. Look for technical competence and also a willingness and ability to communicate and motivate.
 - b. Encourage supervisors to set goals in their organization, and allow individuals to participate in goal-setting.
 - c. Create more supervisory opportunities for AFSC officers, especially junior officers. Develop supervisory abilities for future, more responsible assignments.
 - d. AFSC officers enjoy their autonomy. Allow innovative, responsible officers freedom to perform, but do establish guidelines.

- 3. AFSC officers could have a more positive attitude about training.
 - a. Encourage training monitors to ensure courses (required and beneficial) are made available to the officers. Combine OJT opportunities for trainees and new employees to maximize resources.

Enlisted Personnel

The positive attitudes of AFSC enlisted personnel are impressive. Their only mean response less positive than the data base was in their awareness of advancement. In spite of lowered awareness of advancement opportunities, AFSC enlisted personnel are still more career-oriented than the data base group.

Strengths/Recommendations

- 1. AFSC enlisted personnel desire task variety and challenge.
 - a. Look for job enrichment opportunities and less task repetition for AFSC enlisted positions.
 - b. Encourage AFSC enlisted personnel with stable day shift schedules to continue formal education in evenings.

Weaknesses/Recommendations

- 1. AFSC enlisted personnel need to be made more aware of advancement and recognition.
 - a. Ensure supervisors (military or civilian) are aware of enlisted promotion opportunities.
 - b. Encourage First Sergeant's visits to small groups of enlisted personnel in heavily officer or civilian populated organizations.
 - c. Encourage stressing promotion information at Commander's Calls for enlisted personnel.
 - d. Actively promote cross-training for eligible enlisted personnel.

Civilian Employees

Civilian personnel are primary repositories of the corporate knowledge in most AFSC organizations. They represent approximately one half of the command's total manpower. Civilians work with military members of AFSC at virtually every position and level of responsibility.

Strengths/Recommendations

- 1. AFSC civilians desire challenge, use of skills, and growth.
 - a. Encourage job enrichment of civilian jobs. More challenging positions increase motivation and productivity. This is especially important for civilian positions due to greater tour stability.
- 2. AFSC civilians are more positive toward their supervision than the data base group.
 - a. Encourage supervisors to set goals and to communicate better with subordinates.
 - b. Encourage supervisors to select motivated civilians to train newly assigned military personnel in technical tasks and responsibilities in the organization.

Weaknesses/Recommendations

- 1. AFSC civilians do not feel that their jobs are as significant, nor do they have as much pride in their jobs, as data base civilians.
 - a. Examine job characteristics. Attempt to enrich and enhance importance of jobs where possible.
 - b. Ensure that all civilian employees (security clearance permitting) are familiar with the "threat" and fully understand their place in the organization. Also ensure that the organization's role and mission are proudly presented.
 - c. Encourage Civilian Calls to stress accomplishments and increase dialogue between leaders and civilian employees.

This concludes recommendations for AFSC commanders and resource managers. The OAP results indicate that AFSC personnel have attitudes that

are different from a cumulative Air Force attitude data base. It is hoped that the results of the comparison, the discussion, and recommendations will provide some insight into improving the productivity of the men and women of Air Force Systems Command.

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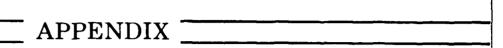
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APPENDIX A

Organizational Assessment Package Survey
Factors and Variables



ORGANIZATIONAL ASSESSMENT PACKAGE SURVEY

FACTORS

AND

VARIABLES

JANUARY 1986

LEAST ASHIP AND MANAGEMENT DEVELOPMENT CENTER AIR O AVERSITY

Max will Air Force Base, Alabama 36112-5712

Þ Appendix

FACTORS AND HARTABLES OF THE ORGANIZATIONAL ASSESSMENT PACKAGE

Force Human Pesources Laboratory and the Leadership and Management Development Censer (LMUC) and is used to aid LMDC in its missions to: (a) conduct research on Air Force systemic issues using information in the OAD database, (b) provide leadership and management training, and (c) provide management commanders upon request. The OAP is a 109-item survey questionnaire designed jointly by the Air

Allowable responses to the attitudinal items on the survey range from I (low) to 7 (high). The attitudinal items are grouped into 25 factors that address such areas as the Job Itself, management and supervision. Communications, and performance in the organization. Each data record consists of 7 externally coded descriptors and 24 demographic Items as well as the responses to the 93 attitudinal items.

Ine factors measured by the OAP are grouped into a systems model to assess three aspects of a work group: Input, process, and output (adapted from McGrath's model).

input. In LMDC's adaptation of the model, input is comprised demographics, work itself, and job enrichment.

Descriptive or background information about the Demographics. Descriptingspondents to the DAP survey.

43

B. Work itself. The work itself has to do with the task properties (technologies) and environmental conditions of the job. It assesses the patterns of characteristics members bring to the group or organization, and patterns of differentiation and integration among position and roles. The following OAP factors measure the work itself:

806 - Job Desires (Need For Enrichment)
810 - Job Performance Goals
812 - Task Characteristics
813 - Task Autonomy
814 - Mork Repetition
816 - Desired Repetitive Easy Tasks
823 - Job Related Training
Job Influences (not a statistical factor)

C. Job Enrichment. Measures the degree to which the job itself is interesting, meaningful, ciallenging, and responsible. The following OAP factors measure job enrichment:

- Skill Variety

- Task Identity

- Insk Signiffcance

- Job Feedback

- Need for Enrichment Index (Job Desires) Job Motivation index 800 802 804 804 806

808 - OJI Total Score 809 - Job Motivation Index - Additive 825 - Motivation Potential Score

The work group assesses the pattern of activity and roup members. The following DAP factors measures Work Group Process. The work group interaction among the group members. I leadership and the work group process:

805 - Performance Barri, s/Blockages (Work Support) 818 - Management and Supervision 819 - Supervisory Communications Climate 820 - Organizational Communications Climate Work Interferences (not a statistical factor)

Supervisory Assistance (not a statistical factor)

Mork Group Output. Measures task performance, group development, and effects on group members. Assesses the quantity and quality of task performance and alteration of the group's relation to the environment. Assesses changes in positions and role patterns, and in the development of norms. Assesses changes on skills and attitudes, and effects on adjustment. The following OAP factors measure the work group output:

811 - Pride 817 - Advancement/Recognition 821 - Work Group Effectiveness (Perceived Productivity) 822 - Job Related Satisfaction 824 - General Organizational Climate

EXTERNALLY CODED DESCRIPTORS

Julian Date of Survey

Major Command

Base Code

Consultation Method

Consultant Code

Survey Yerston

(Note: These Items are concatenated to each data record during EDP processing.) THE REPORT OF THE PROPERTY OF

Statement	fatal months in present career field:	 Less than 1 month More than 1 month, less than 6 months More than 6 months, less than 12 months 	2	Š	~	2	 More than 12 months, less than 18 months More than 18 months, less than 24 months More than 24 months, less than 36 months 	ž		1. (ess than I wonth 2. More than I worth, less than 6 wonths 3. More than 6 worths, less than 12 wonths 4. More than 5 worths, less than 12 wonths	222	Your Ethnic Group is:	1. American Indian or Alaskan Mative 2. Asian or Pacific [Slands] 3. Blatt one of Minania Colors	4. Historic of Historic Origin 5. White, not of Historic Origin 6. Other	Which of the following Dest' describes your	merital status?	O. Not married. 1. Married. Spouse is a civillan employed nate idea.	2. Married: Spouse is a civilian employed outside home - geographically separated. 3. Married: Spouse not employed outside	home. 4. Married: Spouse not employed outside	S. Married: Spoose is a military member.	
Statement Number	2				•			•	•			so.			11						
Yariable Rumber	28				\$00			ş	\$			68			900						
DEPOGRAPHIC ITEMS (NOT A STATISTICAL FACTOR)		Statement Bumber Statement	. Supervisor's Code	. York Group Code		- Your age is	- Top are (officer, enlisted, 65, etc.)	- Tour pay grade is	Primary ACS.	- Duty 43c	The above items are on the response sheet.)	(pot nseq) -	- (Hot med)	l local years in the Air Force:	1. Less chan i year 2. More than I year, less than 2 years	More than 2 years, less		o. More Ulan a years			
		Yariable		•		•		•	•	•	(Note: Th	16	200	200							

Statement	Your work requires you to work primerily:	1. Alone 2. With one or two people 3. As a small work group (3-5 people) 4. As a large work group (6 or more people) 5. Other	What is your usual work schedule? 1. Day shift, normally stable hours 2. c.ton. shift (shows 1500,2400)		often does your si lings?	1. Never 6. Weekly 2. Occasionally 5. Dally 3. Monthly 6. Continuously Mow often are group meetings used to solve problems and establish goals?	 Rever About half the time Occasionally 4. All of the time 	What is your aeronautical rating and current status?	 Monrated, not on aircreu Monrated, now on aircreu Rated, in crew/operations job Rated, in support job
Statement Rumber	=		2:		2	=		S 1	
Yarfable Number	•10		\$ 10		910	(10		9 70	
Statement	<u> </u>	1. Non-high school graduate 2. Wigh school graduate or GEO 3. Less blan two years college 4. Two years or more college 5. Bachelors Degree 6. Maiters Degree 7. Doctoral Degree	Mighest lavel of professional military education (residence or correspondence):	0. None or not applicable 1. MCD Orientation Course or USAF Supervi- sor Course (MCD Phase 1 or 2) 2. MCD Leadership School (MCD Phase 3) 3. MCD Acaders (MCD Phase 4) 4. Senior MCD Acadery (MCD Phase 5) 5. Squadron Officer School 6. Internation Course Chair (ACD Phase 5) 6. Internation Course Course (ACD Phase 5)	1. Senier Service School (1.e., AMC, ICAE, MAC)	Now many people do you directly supervise? 1. None 5. 4 to 5 2. 1 6. 6 to 8 3. 2 7. 9 or more	for how many people do you write performance reports?	1. Hone S. 4 to 5 2. 1 6. 6 to 8 3. 2 7. 9 or more	6. J Does your supervisor actually write your performance report? 1. Yes 2. No 3. Not sure
Statement Number	•		~			* 0	•		01
Warfable Butter	ŝ		010			110	210		616

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Statement	Which of the following best describes your career or employment intentions?
Statement	91
Yariable Rumber	610

Planning to retire in the next 12 months
 Will continue in/with the Air Force as a
 Career
 Career

 Mill sost likely continue in/with the Air Force
 May continue in/with the Air Force

5. Will most likely not make the Air Force a career

 Will separate/terminate from the Afr force as soon as possible NOTE: Variable COB, Statement II was added to the DAP on 19 Jan 80 and replaced variable Olf which appears on page 6. Although no longer used, Variable Olf is still shown because data collected from about 25,000 samples for this variable are still in the data base.

FACTORS

Each 800 series factor consists of two or more variables which correspond to statezents in the OAP. A mean score can be derived for each factor except 305, 809, 808, 809 and 825 by using a "straight average," The formula for computing the exceptions is indicated.

FACTOR 800 - SKILL VARIETY: Measures the degree to which a job requires a variety of different tasks or activities in carrying out the work; involves the use of a number of different skills and talents of the worker; skills required are railused by the worker.

Statement	To what extent does your job require you do many different things, using a variety of your talents and utilis?	To what extent does your job require you i
Statement Number	4	r
Variable Number	ī.	212

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FACTOR 801 - TASK IDENTITY: Measures the degree to which the job requires completion of a "whole" and identifiable piece of work from beginning to end.

Statement	To what extent does your job involve doing whole task or unit of work?	To what extent does your Job provide you with a chamce to finish completely the piec of work you have became?
Statement Number	e	22
Yariable Number	202	112

FACTOR 802 - TASK SIGNIFICANCE: Measures the degree to which the job has a

substantial impact on the lives or work of others; the importance of the job.		To what extent is your Job significant in that it affects others in some important way?	To what extent does doing your job well affect a lot of peaple?
or work of others; the	Statement	To what extent is that it affects or way?	To what extent doe affect a lot of pe
impact on the lives	Statement	61	11
Substantial	Variable	co.	012

FACTOR 803 (NOT USED)

FACTOR BOA - JOB FEEDBACK: Measures the degree to which carrying out the work $\overline{activities}$ required by the Job results in the worker obtaining clear and direct information about job outcomes or information on good and poor performance.

Statement	To what extent are you able to determine how well you are doing your job without feedback from anyone else?	To what extent does your job provide the chance to know for yourself when you do a good job, and to be responsible for your
Statement	22	92
Variable Number	2,,2	509

FACTOR 805 - WORK SUPPORT: Measures the degree to which work performance is <u>kindered by additional du</u>ties, details, inadequate tools, equipment, or work space.

Statement	To what extent do additional duties interfere with the performance of your primary Job?	To what extent do you have adequate tools and equipment to accomplish your job?	lo what extent is the emount of work space provided adequate?
Statement	2	*	\$
Variable Number	ž	201	£

(8-206-207-208)/3

FACTOR 806 - NEED FOR EWRICHMENT INDEX (JOB DESIRES): Has to do with job related characteristics (autonomy, personal growth, use of skills, etc.) that the individual would like in a job.

Statement	(in my job, i would like to have the characteristics describedfrom "not at all" to "an extremely large amount")	Opportunities to have independence in my work.	A job that is meaningful.	The opportunity for personal growth in my job.	Opportunities in my work to use my skills.	Opportunities to perform a variety of tasks.	
Statement Number	would like to ham	15	25	3	*	\$\$	
Variable Number	(In my job, 1 describedfr	549	052	152	252	253	

FACTOR 807 - JOB MOTIVATION INDEX: A composite index derived from the six job Characteristics that reflects the overall "motivating potential" of a job; the degree to which a job will prompt high internal work motivation on the part of job encumbents.

tasks.

Index is computed using the following factors:

Skill variety	lask identity	Task significance	Performance barriers/blockages	Task autonomy	Job feedback
008	108	805	\$08	613	8 08

Formula ((800+801+802+805)/4)*813*804

FACTOR 808 - Out TOTAL SCORE: Assesses one's perception of mutivation provided by his or her job. This ractor is a variation of a scale employed by other job mutivation theorists.

Score is computed using the variables in the following formula:

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FACTOR 803 - JOB MDTIVATION INDEX ADDITIVE: This factor is a variation of	AC PERSON OF STREET

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Skill variety	Task identity	Task significance	Performance barriers/blockag	Task eutonomy	Tort repetition
800	108	805	\$08	813	YOY.

Formula [(800+601+802+805)/4)+813+604

FACTOR 810 - JOB PERFORMANCE SOALS: Measures the extent to which job performance quals are clear, specific, realistic, understandable, and chailenging.

	2				
Statement	To what extent do you know exactly what is expected of you in performing your job?	To what extent are your job performance goals difficult to accomplish?	To what extent are your Job performance goals clear?	To what extent are your job performance goals specific?	To what extent are your job performance goals realistic?
Statement	*	z	36	1 1	*
Variable	217	818	27.3	***	122

48

FACTOR 811 - PRIDE: Nessures the pride in one's work.

Statement	to what extent are you proud of your job?	To what extent does your work give you a feeling of pride?
Statement Number	33	\$
Variable Rumber	215	\$15

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variety	Identity, task significance, and job feedback designed to measure several	
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Sta tement	To what extent does your Job require you to do many different things, using a variety or your talents and skills?	to what extent does your job involve doing whole task or unit of work?	To what extent is your Job significant, in that it affects others in some important way	To what extent are you able to determine box well you are doing your job without feedback from anyone else?	To what extent does your job provide the chance to know for yourself when you do a good job, and to be responsible for your ow work	To what extent does doing your job well affect a lot of people?	To what extent does your Job provide you will a chance to finish completely the piece of work you have began?	To what extent does your job require you to use a number of complex skills?
Statement Number	71	897	61	22	92	13	58	62
Yariable Number	102	202	£03	212	602	210	211	212

FACTOR 813 - TASK AUTONOMY: Measures the degree to which the job provides <u>Treedom to do the work as one sees fit;</u> discretion in scheduling, decision making, and means for accomplishing a job.

Statement	To what extent does your job provide a great deal of freedom and independence in scheduling your work?	To what extent does your job provide a great deal of freedom and independence in selecting your own procedures to accomplish it?	To what extent does your job give you freedom to do your work as you see fift?	To what extent are you allowed to make the major decisions required to perform your job well?
Statement Number	æ	12	8	17
Variable	270	1/2	213	\$14

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FACIOR 814 - NORR REPETITION: Measures One extent to which one performs the same tasks or faces the same type of problems in his or her job on a regular basis.	Statement	To what extent do you perform the same tasks repeatedly within a short period of time?	to what extent are you faced with the same type of problem on a weekly basis?
The same type of	Statement	65	ĝ
FACTOR B14 - :	Variable Number	922	127

FACTOR 815 (MOT USED)

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FACTOR 816 - DESIRED REPETITIVE EAST TASKS: Measures the extent to which one	desires his or her Job Involve repetitive tasks or tasks that are easy to accomplish.
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Statement	A job in which tasks are repetitive.	A job in which tasks are relatively easy to accomplish.
Statement	%	15
Variable Number	555	852

FACTOR - JOS INFLUENCES (NOT A STATISTICAL FACTOR):

Statement	To what extent to you feel accountable to your supervisor in accomplishing your job?	to what extent do co-worters in your work group maintain high standards of performance?
Statement	11	24
Warlabie Number	515	818

FACTOR 817 - ADVANCETEXT/RECOTNITION: Messures one's avareness of advancement and recognition, and Testings of being prepared (f.e., learning new skills for promotion).

Statement	to wat extent are you must of promotion/ad- vancement opportunities that affect you?	To what extent do you have the opportunity to progress up your career ladder?
Statement	₹	\$
Yariable Humber	234	613

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To what extent are you being prepared to accept increased responsibility?	To what extent do people who perform well receive recognition?	To what extent do you have the opportunity to learn skills which will improve your promotion potential?	FACIOR 818 - MANAGEIENT and SUPERVISION (A): Heasures the degree to which the norse has high performance tenderes and good work procedures. Heasures support and juidance received, and the overall quality of supervision.	Statement	By supervisor is a good planner.	My supervisor sets high performance standards.	My supervisor encourages teamork.	My supervisor represents the group at all times.	My supervisor establishes good work procedures.	My supervisor has made his responsibilities clear to the group.	My supervisor fully explains procedures to each group member.	My supervisor performs well under pressure.	ON (B): (NOT A STATISTICAL FACTOR)	Statement	My supervisor takes time to help as when needed.	My supervisor lets me know when I am doing a poor job.	When I need technical advice, i usually go to my supervisor.	*
3	\$.	MANAGEMENT and SUPE ign performance star received, and the	Statement Number	88	65	3	19	62	63	79	59	- MANAGEMENT and SUPERYISION (B):	Statement Rumber	99	11	25	
210	241	276	FACTOR 818 - worker has his and guidance	Yariable Number	* 0 *	405	01	11.	215	613	\$\$	917	FACTOR - MAKA	Variable	424	434	439	

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FACTOR 819 - SUPERVISORY CONMICATIONS CLIMATE: Messures the degree to which has worken by gardely a blat Dare 18 second rapport with supervisors, that there is a good worst my environment, that Innovation for tast Improvement is encouraged, and that rewards are based upon performance.

	Statement	My supervisor asts membars for their ideas on task laprovements.	My supervisor explains how my job contributes to the overall mission.	My supervisor helps me set specific goals.	My supervisor lets me know when I am doing a good job.	My supervisor always helps ame improve my performance.	by supervisor inseres that I get job related training when needed.	My job performance has improved due to feed- back received from my supervisor.	My supervisor frequently gives me feedback on how well I am doing my job.
Statement	Rumber	5.7	3	69	0,	22	23	7.4	76
Yariable	Humber	921	923	111	11	435	436	437	7

FACTOR 830 - 055ANIANIONAL COMMUNICATIONS CLIMATE: Measures the degree to which the worser perceives that there is an open communications environment in the organization, and that adequate information is provided to accomplish the job.

Statement	ideas developed by my work group are readily accepted by management personnel above my supervisor.	My organization provides all the necessary information for me to do my job effectively.	My organization provides adequate information to my work group.	My work group is usually aware of important events and situations.	My complaints are aired satisfactorily.	The information in my organization is widely shared so that those meeting it have it available.
Statement Number	82	88.	ę.	85	986	16
Yarlable Rumber	8	100	200	ដ្ឋ	104	906

My organization has clear-cut goals.	the goals of my organization are reasonable.	My organization provides accurate information to my work group.	FACTOR 821 - WORK GROUP EFFECTIVENESS: Measures one's view of the quantity, quality, and efficiency of work generated by his or her work group.	Statement	The quantity of output of your work group is 'very high.	the quality of output of your work group is very high.	When high priority work arises, such as short suspenses, cresh progrems, and schedule changes, the people in my work group do an outstanding job in handling these situations.	four work group always gets meafaum output from available resources (e.g., personnel and material).	Your work group's performance in comparison to similar work groups is very high.	- WORK [MIERFERENCES [MOT A STATISTICAL FACTOR]: Identifies things that an individual's Joo performance.		3Cd Cement	To what extent do you have the mecessary supplies to eccomplish your job?	To what extent do details (task mot covered by primary or additional duty descriptions) interfere with the performance of your primary job?	To what extent does a bottleneck in your organization seriously affect the flow of work either to or from your group?
96	56	001	- MORK GROUP EFFECTIVENESS: d erficiency of work generat	Sta tenent Number	"	78	67	8	81	FACTOR - WORK INTERFERENCES (MOT A STAT Tapede an Individual's Joo performance.	Statement		€	64	æ
314	31.7	318	FACTOR 821 -	Variable Number	529	260	561	792	592	FACTOR - WORK	Variable Kilable		113	878 8	673

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FACTOR 822 - JOB RELATED SATISFACTION: Measures the degree to which the worker	rounding
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FACTOR	15 9676

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	Statement	feeling of Nelpfulness The Chance to help people and laprove their welfare through the performance of my job. The lapportance of my job performance to the welfare of others.	Co-worker Relationships My amount of effort compared to the effort of my co-workers, the attent to which my co-workers share the load, and the spirit of teamort which exists among my co-workers.	family Attitude Toward Job The recognition and the pride my family has in the work I do.	Mort Schedule My work schedule; flexibility and regularity of my work schedule; the number of hours I work per week.	Job Security	Acquired Valuable Skills The Chance to acquire valuable skills in my Job which prepare me for future opportualiles	My Job es a Whole
	Statement Rumber	101	201	103	<u>8</u>	101	8	109
•	Number	705	20.	710	27	718	319	123

FACTOR 833 - JOB RELAIED TRAINING: Measures the extent to which one is satisfied with on-the-job and technical training received.

Statement	On-the-Job fraining (QJT) The QJT instructional methods and instructors' competence.	Technical Training (Other than OJT) The technical training I have received to perform my current Job.
Statement Number	•01	501
Yariable	111	21.2

FACIOR 824 - GENERAL ORGANIZATIONAL CLIMATE: Measures the individual's perception of his or her organizational anvironment as a whole (1.e. spirit of teamort, communications, organizational pride, etc.).

Statement	My organization is very interested in the attitudes of the group members toward their jobs.	My organization has a very strong interest in the welfare of its people.	I am very proud to work for this organization	[fee] responsible to my organization in accomplishing its mission.	Personnel in my unit are recognized for outstanding performance.	i am uswally given the opportunity to show or demonstrate my work to others.	There is a high spirit of teamork among my co-workers.	There is outstanding cooperation between work groups of my organization.	[feel motivated to contribute my best efforts to the mission of my organization.	My organization rewards individuals based on performance.	FACTOR 825 - MOTIVATION POTENTIAL SCORE: This factor is amother warlation of a scale employed by other job motivation theorists. The score ranges between I and 343 with 109 being the Air Force average. Low scores indicate a poorly motivatingly. Score is computed using the following factors:
Statement	7.80	88	6	8	35	26	*	8	16	96	HOTIVATION POTENTLY ed by other job mot being the Air Forci is computed using the
Variable	305	306	307	8 0	310	111	31.2	313	315	316	FACTOR 625 - scale employ 343 with 109 Job. Score

Sell verlety	Task Identity	Tesk significance	Job feedback	Task autonomy
008	108	209	208	813

Formula ((800+801+802)/3)*813*804

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	Statement	To what extent does your job give you freedom to do your work as you see fit?	To what extant are you allowed to mate the major decisions required to perform your job well?	To what extent are you proud of your job?	To what extent do you feel accountable to your supervisor in accomplishing your job?	To what extent do you know exactly what is expected of you in performing your job?	To what extent are your Job performance goals difficult to accomplish?	(Not used)	To what extent are your job performance goals realistic? (Not used)	To what extent do you perform the same tasks repeatedly within a short period of time?	To what artent are you faced with the same type of problem on a weekly basis?	 This variable is an element of "Job influences" (not a statistical factor).
	Statement	2	×	26	a	*	35	;	% :	ħ	Ş	is an element o
	Factor	613	613	118	:	910	018		£ :	4 18	7.7	•1447
	Yariable Number	213	514	515	516	213	218	022 4 612	221 222-225	922	22,	• This va factor).
TARIABLES	Statement	To what extent does your job require you to do many different things, using a variety of your talents and stills?	To what extent does your job involve doing a whole task or welt of work?	To what extent is your job significant, in that it affects others in some leadersat way?	(pasa sou)	is wat extent to additional outles interfere with the performance of your primery job?	To what extent do you have adequate tools and equipment to accomplish your job?	to what extent is the amount of work space provided adequate?	To what extent does your job provide the chance to know for yourself when you do a good job, and to be	responsible for your own work? To what extent does doing your job well affect a lot of people?	To what extent does your job provide you with a charce to finish completely the piece of work you have began?	To what extent does your job require you to use a number of complex skills?
	Statement	rı .	8 1	e.	:	2	*	×	92	۲2	æ	62
	Fector	218/008	801/312	218/208	:	S.	5	§ 08	804/812	218/209	101/812	218/008
	Variable Number	2	202	503	ž	ž	É	508	6 02	012	112	212

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Statement	(Not used)	A job in which tasks are relatively easy to accomplish.	The quantity of output of your work group is very high.	The quality of output of your work group is very high.	When high priority work arises, such as short suspenses, crash programs, and schedule changes, the propie in my work group do an	outstanding job in handling these situations.	(Mot used)	Your work group always gots maximum output	from satisble resources (e.g., personnel and material).	Your work group's performance in comparison to similar work groups is very high.	(Not used)	To what extent does your job provide a great deal of freedom and independence in	scheduling your work?	To what extent does your job provide a great deal of freedom and independence in selecting	your own procedures to accompilsh it?	To what extent are you able to determine how well you are doing your job without feedback from anyone else?
Statement Number	:	25	11	78	79		:	2		=	;	02		≂		2
Fector		816	128	821	128		:	123		123	:	ą				804/812
Variable Kumber	256 4 257	888	652	380	192		562 4 263	792		592	692-992	270	į	1/2		2%2
Statement	(Not used)	To what patent are you aware of promotion/advancement coportunities that affect you?	(Not used)	To what extent do co-workers in your work group maintain high standards of performance?	To what extent do you have the opportunity to progress up your career ladder?	To what extent are you being prepared to accept increased responsibility?	I a motion was almost the state of	receive recognition?	(Not used)	Opportunities to have independence in my work?	A job that is meaningful.	The appartunity for personal growth in my job.	Opportunities in my work to use my skills.	Opportunities to perform a variety of tasks.	(Not used)	A job in which tasks are repetitive.
Statement	:	=	;	\$	\$	2	S		:	25	æ	2	3	88	:	×
Factor	:	(10	;	;	917	218	617	•	:	3	8	ğ	Š	Š	;	816
Variable Mumber	228-233	234	215-217	238•	539	9	142		892-292	549	952	152	252	32	154	265

This variable is an element of "Job influences" (not a statistical factor).

Statement	My work group is usually aware of important events and situations.	My complaints are aired satisfactorily.	My organization is very interested in the attitudes of the group members toward their	jobs. My organization has a very strong interest in the welfers of its people.	i am very proud to work for this eroanization.	i feel responsible to my organization in accomplishing its mission.	The information in my organization is widely shared so that those meeding it have it available.	Personnel In my wait are recognized for outsigned for	i am usually given the apportunity to stow or demonstrate my work to others.	There is a high spirit of teamwork among my co-workers.	There is outstanding croperation between wort groups of my organization.
Stateme. r Kumber	8 2	3	4	8	66	\$	16	¥	33	16	8
factor	920	2	B24	824	929	824	950	924	\$24	824	8 24
Variable Humber	303	ğ	308	306	Ŕ	8	303	910	311	211	£1£
Statement	To what extent are your Job performance goals clear?	to what extent are your job performance goals specific?	to what extent does your work give you a faeling of gride?	Io what extent do you have the opportunity to learn skills which will improve your promotion potential?	To what extent do you have the necessary supplies to accomplish your Job?	to what extent do details (task not covered by primary or additional duty descriptions) interfere with the performance of your primary job?	To what extent does a bottleneck in your organization seriously affect the flow of work either to or from your group?	(Not used)	ideas developed by my work group are readily accepted by management personnel above my supervisor.	My arganization provides all the necessary information for me to do my job effectively.	My organization provides adequate information to my work group.
Statement Number	%	£.	9#	\$	6\$	\$	95	:	28	£	5
Factor	018	018	118	613	:	:	:	:	029	8	2
Yariable Number	673	114	\$75	912	112	278**	 612	280-288	86	ã	200

54

 These variables are elements of "work interferences" (not a statistical factor).

2

Statement	My supervisor asks members for their ideas on	(Mot used)	My supervisor explains how my job contributes to the overall mission.	(Not used)	My supervisor helps me sat specific goals.	(Not used)	My supervisor lets me know when I am doing a good job.	My supervisor lets ame know when I am doing a poor job.	My supervisor always helps me improve my performance.	By supervisor insures that i get job related training when needed.	My job performance has improved due to feedback received from my supervisor.	(Not used)	When I meed tachnical advice, I usually go to ay supervisor.	(Not used)	My supervisor frequently gives me feedback on how well I am doing my job.	(Not used)	My supervisor fully explains procedures to each group member.	(Not used)	*** These variables are elements of "supervisory assistance" (mot a statistical
Statement Number	29	:	89	:	5	:	02	и	22	t.	*	:	25	;	76	;	2	;	iles are element
Factor	818	:	619	:	819	:	618	:	619	619	619	:	:	:	619	;	92	;	e verieb
Variable Rumber	426	457	428	429 4 430	5	432	£	***	435	436	Ş	27,	439**	140 7 441	24	443 4 444	445	446-704	Thes
Statement	My organization has clear-cut goals.	i feel motivated to contribute my best efforts to the mission of my organization.	My organization revards individuals based on parformance.	the goals of my organization are reasonable.	My organization provides accurate information to my work group.	(Not esed)	My supervisor is a good planner.	My supervisor sets high performance standards.	(Met used)	My supervisor encourages teamork. My supervisor represents the group at all	Ny supervisor establishes good work nonequant	We conserve has made bit reconstitution	clear to the group.	the terrary (or sarforms as) under presure.	(hot used)	My supervisor takes time to help me when needed.	(Not used)	of "supervicory secistance" (not a statistical	
Statement	96 My organization has clear-cut goals.	37 I feel motivated to contribute my best efforts to the mission of my organization.	98 My organization revards individuals based or performance.	99 The goals of my organization are reasonable.	100 My organization provides accurate information to my work group.	(Not esed)	58 My supervisor is a good planner.		(Not used)	60 My supervisor encourages teamork 61 My supervisor represents the group at all	62 W supervisor establishes good work armediums.	63 We conserved the made ble reconnected (1)					(Bot used)	e is an element of "supervisory assistance" (not a statistical	
¥					My organization provi to my work group.			My supervisor sets hi standards.	(Not used)	My supervisor encours			: ;	· 50	: ;	My supervisor takes		This satishe is an element of "unnervisory and stance" (not a statistical	

*** These variables are elements of "supervisory assistance" (not a statistical factor).

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Heritable Hember	Factor	N E	Statement
705	A22	101	feeling of Neipfulness The chacke to help people and improve their welfere through the performance of my job. The importance of my job performance to the welfere of others.
706 - 708	:	:	(Mot used)
709	229	102	Co-worker Relationships Wy amount of effort Compared to the effort of my co-workers, the extent to which my co-workers share the lead, and the spirit of teamount which exists among my co-workers.
210	822	103	Family Attitude Toward Job The recognition and the pride my family has in the work I do.
711	£	2	On-the-Job Training (QJT) The QJT instructional methods and Instructors' competence.
7118	£28	\$01	lechnical Training (Other than OJI) The tachnical training I have received to parions my current job.
713-716	:	;	(Not used)
111	228	90.	work schedule [lexibility and regularity of my work schedule; the number of hours I work per week.
718	228	101	Job Security
417	229	8	Acquired Valuable Skills The charce to acquire valuable skills in my job which prepare me for future opportunities.
120-122	;	;	(Mot wsed)
123	822	109	of Job as a Whole
124.999	:	:	(par nacq)



APPENDIX B

Analysis of Demographic Information

Table B-l
Number of Respondents by Personnel Category

	AFSC (n)	Data Base (<u>n</u>)	
Officer	2,012	10,698	
Enlisted	2,034	68,513	
Civilians	4,850	20,077	

Table B-2
Sex by Personnel Category

		A	FSC	Dat	a Base
	<u>n</u> =	Male (%) 5,918	Female (%) 2,941	Male (%) 82,087	Female (%) 16,851
Officer		27.6	12.5	11.5	7.2
Enlisted		26.5	15.7	73.8	46.3
Civilians		45.8	71.8	14.7	46.5

Table B-3
Age by Personnel Category

		AFSC			-Data Base	
	Of f (%)	Enl(%)	Civ(%)	Of f (%)	En1(%)	Civ(%)
$\frac{\mathbf{n}}{\mathbf{n}} =$	2,012	2,034	4,850	10,698	68,506	20,071
17 to 20 Yrs	0.0	11.9	0.7	0.0	13.8	1.3
21 to 25 Yrs	18.6	35.3	5.0	11.0	38.1	6.5
26 to 30 Yrs	22.2	20.9	9.4	29.1	19.4	10.8
31 to 35 Yrs	19.5	14.2	12.3	24.1	14.5	14.8
36 to 40 Yrs	19.4	11.2	15.0	19.6	9.7	13.8
41 to 45 Yrs	13.6	4.9	13.3	10.5	2.8	12.3
46 to 50 Yrs	4.7	0.6	16.3	3.2	0.7	13.4
>50 Yrs	1.7	0.9	27.8	2.2	0.6	26.7

Table B-4
Time in Air Force

		AFSC			Data Base-	
<u>n</u> =	Off(%) 2,012	En1(%) 2,029	C1v(%) 4,506	Off(%) 10,677	En1(%) 68,331	Civ(%) 17,606
< 1 Yr	7.2	7.9	5.2	2.5	7.0	5.0
1 to 2 Yrs	8.8	10.9	4.2	4.7	12.0	5.2
2 to 3 Yrs	7.4	11.2	4.4	7.6	12.5	5.4
3 to 4 Yrs	6.7	12.5	4.6	7.2	11.3	4.9
4 to 8 Yrs	16.2	19.7	12.1	22.7	20.5	11.8
8 to 12 Yrs	13.1	11.3	12.7	16.7	12.9	12.4
>12 Yrs	40.3	26.1	56.4	38.3	23.6	55.0

Table B-5
Months in Present Career Field

		AFSC			Data Base-	
	Off(%)	Enl(%)	Civ(%)	Off(%)	En1(%)	Civ(%)
<u>n</u> =	2,003	2,027	4,773	10,618	68,110	19,501
< 6 Mos	6.5	4.8	4.9	5.0	4.8	5.7
6 to 12 Mos	7.6	9.4	5.7	7.6	7.9	7.6
12 to 18 Mos	8.7	6.7	4.7	7.6	8.2	6.2
18 to 36 Mos	19.3	21.6	11.7	22.0	20.8	13.8
>36 Mos	57.6	57.3	72.6	57.6	57.9	66.3

Table B-6
Months at Present Duty Station

		AFSC		Data Base			
	Off(%)	Enl(%)	Civ(%)	Of f (%)	En1(%)	Civ(%)	
<u>n</u> =	2,008	2,029	4,765	10,663	68,165	19,589	
< 6 Mos	13.2	10.9	6.8	13.9	15.5	6.1	
6 to 12 Mos	14.6	18.7	7.1	16.7	18.5	8.0	
12 to 18 Mos	17.3	11.4	5.2	16.2	16.2	6.2	
18 to 36 Mos	31.5	28.6	12.4	36.7	32.2	15.7	
>36 Mos	23.2	30.2	68.2	16.1	17.4	63.7	

Table B-7
Months in Present Position

		AFSC			Data Base			
	Off(%)	Enl(%)	Civ(%)	Off(%)	En1(%)	Civ(%)		
<u>n</u> =	2,006	2,020	4,806	10,653	68,082	19,703		
< 6 Mos	22.6	25.0	14.2	27.2	27.7	13.8		
6 to 12 Mos	21.6	27.3	14.6	25.1	23.9	14.8		
12 to 18 Mos	19.5	13.4	10.4	16.6	16.4	10.2		
18 to 36 Mos	27.9	22.4	19.4	24.1	22.6	19.6		
> 36 Mos	8.1	11.6	41.1	6.8	9.0	41.4		

Appendix B

Table B-8
Ethnic Group

			AFSC	Data Base			
	<u>n</u> =	Off(%) 2,000	Enl(%) 2,020	Civ(%) 4,789	Off(%) 10,646	Enl(%) 68,027	Civ(%) 19,751
Black		6.0	20.2	9.2	5.7	16.1	9.6
Hispanic		2.7	8.6	7.5	2.3	5.1	18.1
Other		4.4	6.7	4.8	4.3	7.1	7.7
White		86.9	64.5	78.5	87.7	71.7	64.6

Table B-9

Marital Status

		AFSC		Data Base		
	Off(%) 2.010	Enl(%) 2,033	Civ(%) 4,833	Off(%) 10,689	Enl(%) 68,386	Civ(%) 20,017
<u>n</u> =						
Not Married	24.9	36.5	21.8	20.4	35.4	17.8
Married	73.3	60.0	71.0	77.9	62.2	76.4
Single Parent	1.6	3.3	7.0	1.5	2.2	5.7

Table B-10
Spouse Status: AFSC

	Geograp	hically Se	parated	Not Geographically Separated			
<u>n</u> =	Off(%) 57	En1 (%) 91	Civ(%) 184	Off(%) 1,417	En1(%) 1,130	Civ(%) 3,249	
Civilian Employed	49.1	53.8	75.5	39.2	44.0	59.1	
Employed Military	21.0	17.5	13.0	50.5	35.0	35.9	
Member	29.9	28.5	11.4	10.2	20.8	4.9	

Table B-11
Spouse Status: Data Base

	Geograph	ically Separated		Not Geographically		Separated	
<u>n</u> =	Off(%) 369	Enl(%) 3,412	Civ(%) 889	Off(%) 7,968	En1(%) 39,177	Civ(%) 14,410	
Civilian Employed	60.4	58.7	67.8	33.3	37.7	53.2	
Not	00.4	30.7	07.0	33.3	37.7	33.2	
Employed Military	19.7	26.6	18.5	58.2	48.2	33.8	
Member	19.7	14.6	13.6	8.3	13.9	12.9	

Table B-12
Educational Level

	AFSC			Data Base		
<u>n</u> =	Off(%) 2,006	En1(%) 2,02?	Civ(%) 4,817	Off(%) 10,670	Enl(%) 68,264	Civ(%) 19,773
Non HS Grad	0.0	0.3	1.6	0.0	0.7	6.3
HS Grad or GED	0.0	33.8	16.5	0.2	45.4	31.8
<pre>< 2 Yrs College</pre>	0.1	36.5	19.0	0.2	34.5	24.9
> 2 Yrs College Bachelor's	1.5	22.9	14.8	1.3	15.5	19.1
Degree Master's	42.4	5.1	28.3	54.9	3.1	12.2
Degree Doctoral	41.7	1.0	17.0	36.2	0.4	4.7
Degree	14.0	0.0	2.4	6.9	0.0	0.6

Table B-13
Professional Military Education

Off(%)			Data Base			
(10)	Enl(%)	Civ(%)	Off(%)	En1(%)	Civ(%)	
2,011	2,032	4,838	10,682	68,349	19,952	
42.6	30.9	86.9	32.9	31.6	76.5	
	28.6	2.7		29.9	8.6	
	30.5	2.4		30.4	7.0	
	7.0	1.2		4.8	2.3	
18.7		1.7	28.2		0.9	
20.0		2.9	23.9		3.5	
16.0		2.2	11.6		1.1	
	\$2.6 18.7	30.9 28.6 30.5 7.0	30.9 86.9 28.6 2.7 30.5 2.4 7.0 1.2 18.7 1.7 20.0 2.9	30.9 28.6 30.5 2.4 7.0 1.2 18.7 28.2 20.0 2.9 23.9	30.9 86.9 32.9 31.6 28.6 2.7 29.9 30.5 2.4 30.4 7.0 1.2 4.8 48.7 1.7 28.2 20.0 2.9 23.9	

Table B-14

Number People Directly Supervised

		AFSC		Data Base			
	Off(%)	Enl(%)	Civ(%)	Off(%)	Enl(%)	Civ(%)	
<u>n</u> =	1,871	1,786	4,063	10,086	62,223	16,449	
None	56.9	66.9	79.4	38.4	60.0	67.3	
1 Person	5.7	7.9	2.1	7.4	7.5	3.1	
2 People	3.2	5.0	1.8	6.9	7.2	2.6	
3 People	5.0	5.5	2.2	8.5	5.5	2.8	
4 to 5 People	11.7	6.5	4.6	14.0	7.9	5.5	
6 to 8 People	8.2	3.6	4.5	10.4	4.7	4.5	
9 or > People	9.1	4.3	5.1	14.0	6.8	13.7	

Table B-15

Number People for Whom Respondent Writes APR/OER/Appraisal

		AFSC	AFSC		Data Base		
	Off(%)	Enl(%)	Civ(%)	Off(%)	En1(%)	Civ(%)	
<u>n</u> =	2,006	2,030	4,841	10,667	68,283	20,009	
None	66.1	73.0	84.7	48.7	66.3	77.3	
l Person	5.3	8.2	1.5	9.9	8.6	2.2	
2 People	3.2	5.4	1.4	7.7	7.8	2.0	
3 People	4.7	5.0	1.6	7.5	5.6	2.1	
4 to 5 People	8.8	4.8	3.4	11.7	7.0	3.9	
6 to 8 People	6.4	2.5	3.8	8.7	2.4	2.9	
9 or >People	5.1	0.8	3.3	5.4	1.9	9.3	

Table B-16
Supervisor Writes Respondent's APR/OER/Appraisal

		AFSC			Data Base		
		Off(%)	Enl (%)	Civ(%)	Off(%)	En1(%)	Civ(%)
	<u>n</u> =	1,990	1,992	4,710	10,531	67,521	19,351
Yes		71.2	74.5	81.3	78.6	70.2	76.9
No		18.9	14.5	8.2	13.4	18.8	9.8
Not Sure		9.8	10.8	10.4	7.9	10.9	13.1

Table B-17
Work Schedule

AFSC			Data Base		
Off(%)	En1(%)	C1v(%)	Off(%)	En1(%)	Civ(%)
1,992	2,006	4,755	10,589	67,840	19,610
75.7	73.7	93.2	56.2	59.6	86.7
0.2	2.3	0.9	0.2	7.5	3.7
0.1	2.8	0.2	0.0	2.9	0.8
з 7.0	10.7	1.5	4.2	13.5	5.2
9.6	7.7	1.6	12.9	12.3	2.4
7.1	1.6	2.3	8.1	2.5	0.6
0.1	0.8	0.1	18.0	1.3	0.4
	75.7 0.2 0.1 3 7.0 9.6	75.7 73.7 0.2 2.3 0.1 2.8 3 7.0 10.7 9.6 7.7 7.1 1.6	Off(%) Enl(%) Civ(%) 1,992 2,006 4,755 75.7 73.7 93.2 0.2 2.3 0.9 0.1 2.8 0.2 3.7.0 10.7 1.5 9.6 7.7 1.6 7.1 1.6 2.3	Off(%) Enl(%) Civ(%) Off(%) 1,992 2,006 4,755 10,589 75.7 73.7 93.2 56.2 0.2 2.3 0.9 0.2 0.1 2.8 0.2 0.0 3.7.0 10.7 1.5 4.2 9.6 7.7 1.6 12.9 7.1 1.6 2.3 8.1	Off (%) En1 (%) Civ(%) Off (%) En1 (%) 1,992 2,006 4,755 10,589 67,840 75.7 73.7 93.2 56.2 59.6 0.2 2.3 0.9 0.2 7.5 0.1 2.8 0.2 0.0 2.9 3.7.0 10.7 1.5 4.2 13.5 9.6 7.7 1.6 12.9 12.3 7.1 1.6 2.3 8.1 2.5

Table B-18
Supervisor Holds Group Meetings

	AFSC			Data Base			
	Off(%)	Enl(%)	Civ(%)	Off(%)	Enl(%)	Civ(%)	
<u>n</u> =	1,992	1,995	4,767	10,565	67,407	19,759	
Never	6.0	14.5	9.5	6.6	16.4	10.1	
Occasionally	26.1	33.9	40.9	22.3	33.7	33.0	
Monthly	14.7	21.8	8.9	13.7	8.3	20.8	
Weekly	41.5	24.6	35.4	42.4	27.4	29.3	
Daily	10.3	3.1	3.3	12.5	11.7	4.7	
Continuously	1.3	1.8	1.6	2.1	2.2	1.8	

Table B-19
Supervisor Holds Group Meetings to Solve Problems

		AFSC			Data Base-	
	Off(%)	Enl(%)	Civ(%)	Off(%)	En1(%)	Civ(%)
<u>n</u> =	1,976	1,970	4,691	10,511	66,990	19,495
Never	18.7	22.4	24.1	14.7	25.0	24.2
Occasionally	41.7	36.3	46.1	42.6	39.8	44.4
Half the Time	21.9	18.4	15.7	21.9	16.6	15.2
Always	17.6	22.7	13.8	20.6	18.4	16.0

Table B-20
Aeronautical Rating and Current Status

	AFSC		Data	Base	
	Off(%)	Enl(%)	Off(%)	Enl(%) 67,225	
<u> </u>	2,010	2,030	10,329		
			· · · · · · · · · · · · · · · · · ·		
	87.0	95.5	56.3	90.4	
	0.7	2.4	2.6	2.0	
	0.8	0.2	31.9	1.6	
	11.3	1.8	8.9	5.8	
	<u>n</u> =		$\underline{n} = \begin{array}{ccc} \text{Off(\%)} & \text{Enl(\%)} \\ \underline{n} = 2,010 & 2,030 \\ \\ 87.0 & 95.5 \\ \\ 0.7 & 2.4 \\ \\ 0.8 & 0.2 \\ \\ \end{array}$	$\underline{n} = \begin{array}{cccc} \text{Off(\%)} & \text{Enl(\%)} & \text{Off(\%)} \\ \underline{n} = 2,010 & 2,030 & 10,529 \\ \hline & 87.0 & 95.5 & 56.3 \\ & 0.7 & 2.4 & 2.6 \\ & 0.8 & 0.2 & 31.9 \\ \hline \end{array}$	

Table B-21
Career Intent

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	AFSC			Data Base			
	Off(%)	Enl (%)	Civ(%)	Off(%)	En1(%)	Civ(%)	
<u>n</u> =	2,001	2,025	4,269	10,637	68,122	17,150	
Retire 12 Mos	4.9	4.4	4.8	3.0	3.0	6.6	
Career	46.9	38.4	48.3	51.7	34.7	52.1	
Likely Career	20.5	20.6	25.8	22.8	18.7	22.7	
Maybe Career Likely	17.7	19.2	14.6	14.6	20.6	12.1	
Separate	6.3	10.2	3.1	4.7	13.7	3.5	
Separate	3.3	6.9	3.2	2.8	9.0	2.7	

^{*} Note: The number (\underline{n}) is the total number of valid responses for the factor being examined.

APPENDIX

APPENDIX C

Attitudinal Comparison of AFSC Personnel to the Data Base

 $\begin{tabular}{ll} Table C-1 \\ Comparison of OAP Factor Scores \\ Between AFSC and Other Officers (Tables C-1 - C-4) \\ \end{tabular}$

	THE WORK ITSELF					
	Mean	SD	<u>df</u> a	<u>t</u>		
Job Performance Goals						
AFSC Officers	4.48	1.03	2608	-11,41***		
Other Officers	4.76	.97	2000	-11,41^^^		
Task Characteristics						
AFSC Officers	5.14	1.05	2543	-9.21***		
Other Officers	5.38	.93	2343	-9.21		
Task Autonomy						
AFSC Officers	4.64	1.29	2823	3.00**		
Other Officers	4.54	1.36	2023	3.00^^		
Work Repetition						
AFSC Officers	4.04	1.44	2669	-9.37 ^{***}		
Other Officers	4.36	1.35	2009	-9.37		
Desired Repetitive/						
Easy Tasks						
AFSC Officers	2.39	1.05	12125	-3.59 ^{***}		
Other Officers	2.49	1.05	12135	-3.33		
Job Related Training						
AFSC Officers	4.30	1.58	2067	10 62***		
Other Officers	4.76	1.45	2064	-10.62		

a Approximate degrees of freedom are given when \underline{t} -test for groups with unequal variances is used.

Table C-2

JOB ENRICHMENT					
	Mean	SD	<u>df</u> ^a	<u>t</u>	
Skill Variety					
AFSC Officers	5.32	1.38	2656	-4 . 12***	
Other Officers	5.46	1.26	2030	-4.12	
Task Identity					
AFSC Officers	5.02	1.28	2681	-7 . 84***	
Other Officers	5.26	1.20	2001	-7.04	
Task Significance					
AFSC Officers	5.47	1.41	2585	., /_***	
Other Officers	5.85	1.21	2383	-11.45	
Job Feedback					
AFSC Officers	4.73	1.24	2602	-6.12***	
Other Officers	4.92	1.17	2683	-6.12	
Need for Enrichment					
AFSC Officers	6.12	0.84	12202	1 01	
Other Officers	6.08	0.87	12292	1.91	
Job Motivation Index					
AFSC Officers	123.07	68.11	11/00	a a *	
Other Officers	126.90	67.07	11490	-2.24*	

^a Approximate degrees of freedom are given when \underline{t} -test for groups with unequal variances is used.

Table C-3

WORK GROUP PROCESS					
	Me an	SD	<u>df</u> a	<u>t</u>	
Work Support			 		
AFSC Officers	4.65	1.03	2857	4.50***	
Other Officers	4.54	1.10	2037	4.50	
Management Supervision					
AFSC Officers	5.20	1.39	057/	-3.87 ^{***}	
Other Officers	5.33	1.33	2574	-3.87	
Supvry Communications Clim	ate				
AFSC Officers	4.70	1.48	2467	-5.23***	
Other Officers	4.89	1.41	2467	-5.23	
Orgal Communications Clima	te				
AFSC Officers	4.57	1.29	24.05	11 / 5 * * *	
Other Officers	4.94	1.24	2485	-11.45	

a Approximate degrees of freedom are given when \underline{t} -test for groups with unequal variances is used.

Table C-4

	WORK GROUP OUTPUT					
	Mean	SD	<u>df</u> a	<u>t</u>		
Pride		· · · · · · · · · · · · · · · · · · ·				
AFSC Officers	5.15	1.50	2631	-10.78***		
Other Officers	5.54	1.36	2031	-10.78		
Advancement/Recognition						
AFSC Officers	4.42	1.20	10006	-6.00 ^{***}		
Other Officers	4.60	1.18	12036	-6.00		
Work Group Effectiveness						
AFSC Officers	5.66	1.16	05.60	-4.54***		
Other Officers	5.79	1.06	2569	-4.54		
Job Related Satisfaction						
AFSC Officers	5.35	1.05	057/	0.01		
Other Officers	5.36	1.10	2574	-0.31		
General Org Climate						
AFSC Officers	4.85	1.29		***		
Other Officers	5.27	1.23	2532	-12.82^^^		

a Approximate degrees of freedom are given when \underline{t} -test for groups with unequal variances is used.

Table C-5

Comparison of OAP Factor Scores

Between AFSC and Other Enlisted (Tables C-5 - C-8)

	THE WO	RK ITSELF		
	Mean	SD	df a	<u>t</u>
Job Performance Goals				
AFSC Enlisted	4.74	1.01	67874	0.18
Other Enlisted	4.74	0.98	0/0/4	
Task Characteristics				
AFSC Enlisted	5.10	1.02	67090	2.71**
Other Enlisted	5.04	1.00	67090	2./1
Task Autonomy				
AFSC Enlisted	4.04	1.41	67395	6.59***
Other Enlisted	3.83	1.42	0/393	0.39
Work Repetition				
AFSC Enlisted	5.16	1.42	2117	0.88
Other Enlisted	5.13	1.37	2117	0.88
Desired Repetitive/				
Easy Tasks				
AFSC Enlisted	3.10	1.38	60001	2 0/***
Other Enlisted	3.22	1.42	68091	-3.84
Job Related Training				
AFSC Enlisted	4.51	1.65	1065	1 02
Other Enlisted	4.47	1.58	1965	1.03

a Approximate degrees of freedom are given when $\underline{t}\text{-test}$ for groups with unequal variances is used.

Table C-6

JOB ENRICHMENT						
	Mean	SD	<u>df</u> a	<u>t</u>		
Skill Variety						
AFSC Enlisted	4.59	1.52	2116	-0.09		
Other Enlisted	4.60	1.46	2110	-0.09		
Task Identity						
AFSC Enlisted	5.06	1.27	69404	0.41		
Other Enlisted	5.05	1.25	09404	0.41		
Task Significance						
AFSC Enlisted	5.77	1.31	69808	2.43*		
Other Enlisted	5.70	1.31	09000	2.43		
Job Feedback						
AFSC Enlisted	4.87	1.27	69610	4.02***		
Other Enlisted	4.76	1.29	09010	4.02		
Need for Enrichment						
AFSC Enlisted	5.70	1.17	2000	8.55***		
Other Enlisted	5.47	1.24	2098	8.33		
Job Motivation Index						
AFSC Enliseed	108.87	64.14	(2705	r 00***		
Other Enlisted	100.20	62.87	62705	5.82***		

a Approximate degrees of freedom are given when \underline{t} -test for groups with unequal variances is used.

Table C-7

WORK GROUP PROCESS					
	Mean	SD	<u>df</u> a	<u>t</u>	
Work Support					
AFSC Enlisted	4.67	1.11	67816	5.52***	
Other Enlisted	4.53	1.12	0/010	3.32	
Management Supervision					
AFSC Enlisted	4.98	1.58	(5000	2.31*	
Other Enlisted	4.89	1.58	65803		
Supvry Communications (limate				
AFSC Enlisted	4.55	1.68	((055	1 00	
Other Enlisted	4.51	1.63	66055	1.06	
Orgnl Communications Cl	imate				
AFSC Enlisted	4.54	1.29	(1(00	5 00***	
Other Enlisted	4.37	1.32	64623	5.38	

^a Approximate degrees of freedom are given when \underline{t} -test for groups with unequal variances is used.

Table C-8

		WORK GROUP OUTPUT					
n	SD	<u>df</u> ^a	<u>t</u>				
							
3	1.66	60169	3.41***				
0	1.65	09100	3.41				
6	1.23		-3.97 ^{***}				
7	1.20	66891	-3.9/				
5	1.20		***				
6	1.24	2053	6.89***				
3	1.18		***				
-	1.22	1909	9.97***				
6	1.36		***				
-		64561	4.88				
	3 0 6 7 5 6 3 5	0 1.65 6 1.23 7 1.20 5 1.20 6 1.24 3 1.18 5 1.22 6 1.36	0 1.65 69168 6 1.23 66891 5 1.20 2053 3 1.18 1909 6 1.36 64561				

a Approximate degrees of freedom are given when \underline{t} -test for groups with unequal variances is used.

Table C-9

Comparison of OAP Factor Scores
Between AFSC and Other Civilians (Tables C-9 - C-12)

	THE WO	RK ITSELF		
	Mean	SD	<u>df</u> a	<u>t</u>
Job Performance Goals			· 	
AFSC Civilians	4.69	1.00	23716	-12.49***
Other Civilians	4.89	0.99	23/16	
Task Characteristics				
AFSC Civilians	5.18	0.97	6882	-9.82 ^{***}
Other Civilians	5.34	0.94	0002	
Task Autonomy				
AFSC Civilians	4.68	1.31	7325	5.76***
Other Civilians	4.56	1.36	/325	
Work Repetition				
AFSC Civilians	4.28	1.43	0//15	-20.03***
Other Civilians	4.74	1.42	24415	
Desired Repetitive/				
Easy Tasks				
AFSC Civilians	2.72	1.24	7854	***
Other Civilians	3.18	1.42		-22.13
Job Related Training				
AFSC Civilians	4.44	1.60	4500	
Other Civilians	4.48	1.69	6508	-1.61

a Approximate degrees of freedom are given when \underline{t} -test for groups with unequal variances is used.

Table C-10

	JOB ENRICHMENT			
	Mean	SD	df ^a	<u>t</u>
Skill Variety				
AFSC Civilians	5.09	1.35	24379	0.80
Other Civilians	5.07	1.37		
Task Identity				
AFSC Civilians	5.22	1.18	24433	-7.13 ^{***}
Other Civilians	5.36	1.17		
Task Significance				
AFSC Civilians	5.41	1.33	(00)	-17 . 79***
Other Civilians	5.78	1.23	6886	
Job Feedback				
AFSC Civilians	4.96	1.25	24400	-5.47***
Other Civilians	5.07	1.27	24488	
Need for Enrichment				
AFSC Civilians	5.90	1.05	=01.5	. , , ***
Other Civilians	5.65	1.21	7846	14.43***
Job Motivation Index				
AFSC Civilians	130.01	69.53	21899	-1.20
Other Civilians	131.45	70.50		1.20

^a Approximate degrees of freedom are given when $\underline{\textbf{t}}$ -test for groups with unequal variances is used.

Table C-11

	WORK GROUP PROCESS			
	Mean	SD	<u>df</u> a	<u>t</u>
Work Support				
AFSC Civilians	4.72	1.05	7379	3.42***
Other Civilians	4.66	1.12		
Management Supervision				
AFSC Civilians	5.09	1.52	7253	5.60***
Other Civilians	4.95	1.66		
Supvry Communications Clim	ate			
AFSC Civilians	4.69	1.59	7215	5.49***
Other Civilians	4.54	1.73	7215	3.49
Orgal Communications Clima	te			
AFSC Civilians	4.57	1.38	00577	1 00
Other Civilians	4.62	1.41	22577	-1.93

a Approximate degrees of freedom are given when \underline{t} -test for groups with unequal variances is used.

Table C-12

	WORK GROUP OUTPUT			
	Mean	SD	dfa	<u>t</u>
Pride				
AFSC Civilians Other Civilians	5.20 5.47	1.46 1.44	24417	-11.69***
Advancement/Recognition				
AFSC Civilians Other Civilians	3.86 3.77	1.29 1.35	6998	4.19***
Work Group Effectiveness				
AFSC Civilians Other Civilians	5.68 5.63	1.24 1.25	23578	2.50*
Job Related Satisfaction				
AFSC Civilians Other Civilians	5.37 5.43	1.06 1.09	6678	-3.73 ^{***}
General Org Climate				
AFSC Civilians Other Civilians	4.75 4.79	1.37 1.40	6762	-1.64

 $^{^{\}rm a}$ Approximate degrees of freedom are given when $\underline{t}\text{-test}$ for groups with unequal variances is used.